REVISION HISTORY

KL QB7M db kr j _bop d omdo fl r p do fpfl kp j afcdbocd j m db kr j _bop fk qeb r odbkq bopfl k+

Ob fpfl k . +-7Mdar qfl k+

Ob fpfl k . +-7Rma dp FBK E fk B ka p pdpj RSI L i ri qfl k d oj ri _ BK mfk dopfpdq oaf fabo+

Ob fpfl k . +/7Rma dp ABSF B L OABO FKCL OJ QFL K+

Ob fpfl k . +07Rma dp QEBOJ I FKCL OJ QFL K ka Cfdr do / 2+

DEVICE ORDER INFORMATION

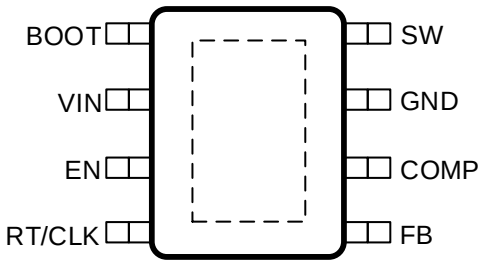
2 5 ' (5 $ % / (' (9 , & (	3 $ & . $ * , 1 * 7 < 3 (	6 7 $ 1 ' $ 5 ' 3 $ & . 4 7 <	3 $ & . $ * (0 $ 5 . , 1 *	3 , 1 6	3 $ & . $ * (' (6 & 5 , 3 7 , 2 1
P Q/ 32- PQBO	Q mb Obbi	1- - -	/ 32-	5	BPL M*5I

ABSOLUTE MAXIMUM RATINGS

L bol mbo qfkd cobb* fodpj mbo q do r kibpp l qebo fpb kl dpa%&

' (6 & 5 , 3 7 , 2 1	0 , 1	0 $;	8 1 , 7
SFK) BK	*- +0	32	S
L L Q	*- +0	4.	S
PT	*.	32	S
L L Q*PT	*- +0	3	S
L J M) C) OQ, I H	*- +0	3	S
L mbo qfkd g r k qfl k dpj mbo q do QG%&	*1 -	. 2-	
Pdq o db dpj mbo q do QPQD	*32	. 2-	

PIN CONFIGURATION



) L J X U H / H D G 3 O (06/2/3 L F

(1) Pqdoppbp _b l ka qel pb ifpdpa r kabo _pl ir dp J fj r j O qfkd j r pb ab f b mboj kbkqa j db+Qeb ab f b fp kl qdr o kdpba dq
cr k qfl k l r qpfab l cfqp Ob l j j bkaba L mbo qfl k l kafqfl kp+

(2) Qeb F fk ir abp l bodpj mbo q do mdp qfl k dq mdp qqeb ab f b ar dkd l boil a l kafqfl kp+Gr k qfl k dpj mbo q do fii b bba . 2-
ebk l bodpj mbo q do mdp qfl k fp qf b+ l kqfkr l r p l mbo qfl k _l b qeb pmb fdba j fj r j l mbo qfkd g r k qfl k dpj mbo q do fii
doar b ifdbqfj b+

PIN FUNCTIONS

DKA	4	Ddrka
PT	5	Obdri qlop fqefkd lrqmrq+ lkkb qPT q k b qpdk imi bofkar qlo
Qebqj i Ma	6	Eb qafppfm qf k m qe lcafb+Bib qpf ii lkkb qf k q DKA mfk+Jrpq_b lkkb qpa q ddrka mi kb lk M d omd mbol mbo qf k ka lmqfj f ba qebqj imbod qj k b+

RECOMMENDED OPERATING CONDITIONS

L bol mbo qfkd odbb* fodpj mbo qrdb o kdb r kibppl qebo fpb kl dpa

3\$5\$0(7(5	'(),1,7,21	0,1	0\$;	81,7
S_{FK}	Fkmrq liq db o kdb	1-2	3-	S
S_{LRQ}	L rqmrq liq db o kdb	--5	24	S
Q_G	L mbo qfkd gr k qf k qpj mbo qrdb	*1-	.2-	

ESD RATINGS

3\$5\$0(7(5	'(),1,7,21	0,1	0\$;	81,7
S_{BPA}	Erj k la JIabi%&: J &)mbo KPF*GBAB *GP*--.*/-.1 pmb fcf qf k) ii mfkp%&			

f M k)

ELECTRICAL CHARACTERISTICS

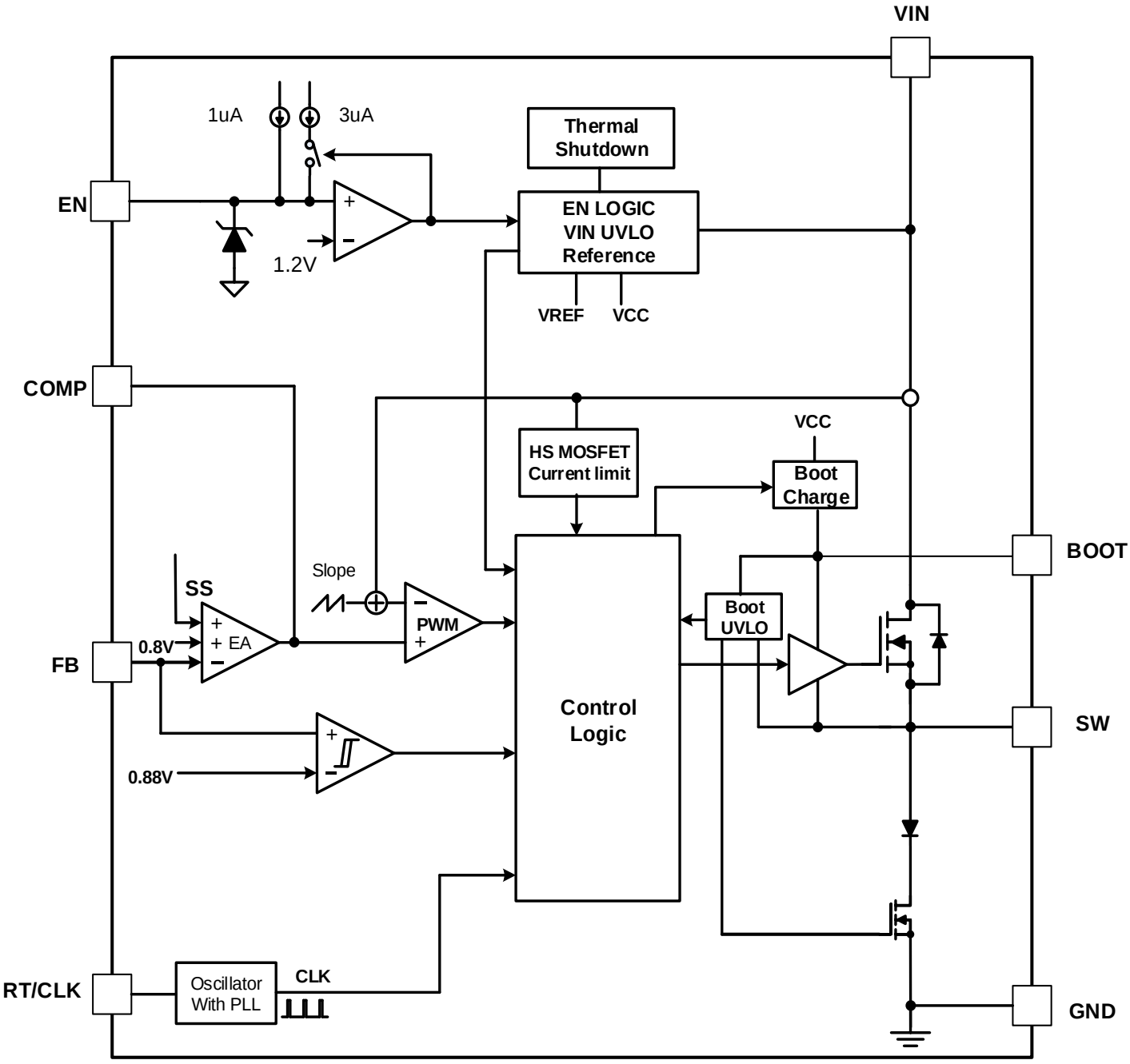
SFK: /1S)QG: *1- ./2)qmf i irb fpdppdpa rkabo/2 +

6<0%2	3$5$0(7(5	7(67 &21',7,21	0,1 7<3 0$;	81,7

3RZHU 6XSSO\

SFK	Lmbo qfkd fkmrq liq db	1+2	3-	S

FUNCTIONAL BLOCK DIAGRAM



Cfdr do 5+Cr k qf k i il h Af do j

OPERATION

2 Y H U Y L H Z

Qeb P Q/32- fp 1+2S*3-S fkmrq)2 lrqmrq)_r h lk bolpo fqe fkqbdo qba 5-j Oapl k efde*pfab ml boJLPCBQ+ Fqfj mibj bkqp lkpq kqoobnrbk mb h rodbkqjlab lkqolio obdri qplrqmrq liqdb)mol faifkdb biibkqifkb ka il a op kpfbkqobpmlkpb ka pfj mifc fkdqeb b ophk iillm lj mobkp qfl k abpfdk+

Qeb p fqefkd oobnrbk fp mol do jj _ibodj .--hE dj .+JE fqe q lpbqfkd jlabp)dopfpqopbqfkd oobnrbk jlab ka qeb il h p k eol kf qfl k jlab)q lmqfj f bp bfqebo qeb ml bo bocf fbk lo qeb b qpk i lj mlkbkqp pf bp+Qeb P Q/32- do qrdop k fkqpok i 1jp plq*pq oq qfj b q lfa i odb fkorpe rodbkq ka lrqmrq liqdb l bopel lq ardkd pq oqrm+Qeb ab f b ipl prmml op jlkl ifqef pq oqrm fqe mob*_fpba lrqmrq lkafqfl k+Qeb pb j ibpp jlab*op kpfqfl k _bq bbk MT J jlab ka MPJ jlab lmbo qfl kp bkprob efde bocf fbk l bo fab il a rodbkq o kdb+Qeb nr fbp bkq rodbkq fp q mf ii .42r rkabokl il a lopibbm jlab lkafqfl k q efb b efde bocf fbk qifdeqil a+

Qeb P Q/32- e p abc riq fkmrq pq oq*rm liqdb lc 1+S fqe 0/-j S e ppdopfp+Qeb BK mfk fp efde* liqdb mfk fqe mob fpfl k qeobpel ia qe q k _b rpba q ag pq qeb fkmrq liqdb il hlrq qeobpel iap fqe q l b opok i dopfpq op q j bbq ro op efdeboRSIL p pop j donrfdoj bkqp+Cil qfkd BK mfk bk _ibp qeb ab f b fqe qeb fkqbok i mrii*rm rodbkq q qeb mfk+ lkkb qfkd BK mfk q SFK afdo qj pq oqp rmqeb ab f b rq j qf ii+

Qeb P Q/32- crii mol dp qfl k do qrdop fk irab qeb fkmrq rkabo* liqdb il hlrq)qeb lrqmrql bo* liqdb mol dp qfl k) l bo rodbkq mol dp qfl k fqe ib*_* ib rodbkq ifj fqfkd)lrqmrqe ca pel oq mol dp qfl k ka qeboj iperqal k mol dp qfl k+

3 H D&N X U U H Q W & R Q W U R O

Qeb P Q/32- bj mil p qf ba oobnrbk mb h rodbkq jlab lkqol i+ k fkqpok i il h fkfqf qopp qrdk fkd lk qeb fkqpdo qpa efde*pfab ml boJLPCBQN. fk b e ib)qebk fkar q o rodbkq qfbbp ifkb oi+T ebk qeb rodbkq qeol rde efde*pfab JLPCBQ do ebp qeb qeobpel ia ib bipbq_ qeb LJM liqdb lc qeb fkqpok ibool o j mifdbo)qeb fkqpdo qpa efde*pfab JLPCBQ fp qrdkba lcc+

Qeb bool o j mifdbopbo bp qeb LJM klab _ lj m qfkd qeb liqdb lc qeb C mfk fqe k fkqpok i -+S obobobk b liqdb+T ebk qeb il a rodbkq fk do pbp) dbar qfl k fk qeb dba_ h liqdb dbi qf bq qeb ooobobk b o fpbp LJM liqdb qfii qeb bo db fkar q o rodbkq j q ebp qeb fk do pba il a rodbkq+Qefp dba_ h ill m bii odri qpp qeb lrqmrq liqdb q qeb obobobk b+Qeb ab f b ipl fkqpdo qpp k fkqpok ipil mb lj mbkp qfl k forfqp q mob bkq pr_* e oj lkf lp fii qfl k ebk arq ib fp ddo qoqe k 2- d o qf ba oobnrbk mb h rodbkq jlab lkqol i+

Qeb P Q/32- lmbo qpp fk Mripb Phfmmfkd Jlab %MPJ& fqe ifdeqil a rodbkq q fj mol b bocf fbk +T ebk qeb il a rodbkq ab do pbp) k fk do bkq fk qeb dba_ h liqdb ib ap LJM liqdb ad m+T ebk LJM c iip q il i j m qeobpel ia %4-j S qmf ii &) ab f b bkqpop MPJ+Qeb lrqmrq liqdb ab p arb q lrqmrq m fqlo afp e odfkd ardkd phfmmfkd mbofl a+Lk b C liqdb ad mpil boqe k qeb obobobk b liqdb) ka qeb LJM liqdb qpbp _l b il i j m qeobpel ia+Qebk efde*pfab ml bo JLPCBQ qrdkp lk fk kb q il h mripb+ qdpo pb bo i p fqefkd ibp fqe qmf i/--j mb h fkar q o rodbkq) LJM liqdb ad mp ka fp i j mba d fk ka mripb phfmmfkd jlab dobb op fcqeb lrqmrq lkqfkrbp ifdeqil aba+

Qefp lkqol ip ebj bebimp efb fkd efdebobocf fbk _ phfmmfkd ibp q dbar b p fqefkd ml boil pp ka d dp acf b e odfkd il pp+Qeb lkqol iibo lkprj mqfl k nrfbp bkq rodbkq fp .42r ardkd phfmmfkd mbofl a fqe kl p fqefkd q fj mol b bocf fbk crqeboi+

(Q D E O H 8 Q G H U Y R O W D J H / R F N R X W 7 K U H V K R O G

Qeb P Q/32- fp bk _iba ebk qeb SFK mfk liqdb qpbp _l b 1+S ka qeb BK mfk liqdb b bbap qeb bk _ib qeobpel ia lc .+S+Qeb ab f b fp afp _iba ebk qeb SFK mfk liqdb c iip _bil 0+6S lo ebk qeb BK mfk liqdb fp _bil .+2S+ k fkqpok i .r mriirm rodbkq pl ro b q BK mfk iil p qeb ab f b bk _ib ebk BK mfk dil qp+

BK mfk fp efde liqdb mfk qe q k _b lkkb qpa q SFK afdo qj q pq oq rmqeb ab f b+

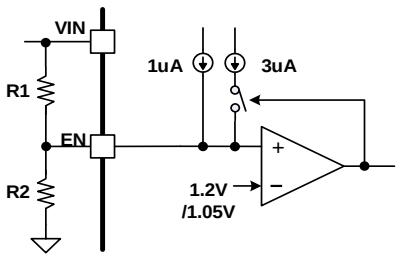
Cl o efdebop pop j RSIL qeobpel ia) lkkb q 1W bh qp qeo e odfkd

%&

%&

ebdo

- S_{dpb} fp dpfkd qedopel ia l cSfk RSI L
- $S_{c\ ii}$ fp c iifkd qedopel ia l cSfk RSI L



Cfdr do 6+P pdpj RSI L _ bk _ib af fab

2 X W S X W 9 R O W D J H

Qeb P Q/32- dodri dpp qeb fkdpdk i dododok b l iq db q- +5S fqe ±. dqibo k b l boqeb l mbo qfkd dpj mbo qr do ka l iq db o kdb+Qeb l rqmrq l iq db fp pbq _ dopfpdq o af fabo cdj qeb l rqmrq kl ab dq qeb C mfk+Fq fp do l j j bkaba dq rpb . dqibo k b l o_bqpodopfpdq qp+Rpb Bnr qfl k 0 dq i ri dp dopfpq k b l cdopfpdq oaf fabqp+ Ql fj mdl b bcof fbk qifdeqil ap) i odbo irb dopfpdq qp do do l j j bkaba+El b bo) fcqeb irbp do dq l efde) qeb dodri dq o fii _b j l do prp bmqf_ib dq kl fpb cdo qfkd l rqmrq l iq db ro +

%0&

ebdo

- $O_{C\ QLM}$ fp qeb dopfpdq o l kkb qfkd qeb l rqmrqdq qeb C mfk+
- $O_{C\ LQ}$ fp qeb dopfpdq o l kkb qfkd qeb C mfk dq qeb dd r ka+

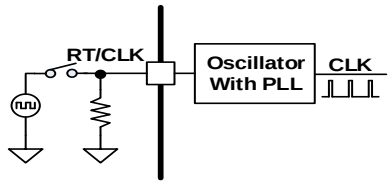
, Q W H U Q D6 W D6 R W W

Qeb P Q/32- fkdpdo dpp k fkdpdk i pl cq*pq oq fo r fq qe q o j mp qeb dododok b l iq db cdj bdl l iqp dq - +5S dododok b l iq db fk 1 j p+Fcqeb BK mfk fp mr iiba _bil . +2S) p fq efkd pdq mp ka qeb fkdpdk i pl cq*pq oqdopbqp+ Qeb pl cq*pq oq ipl dopbqp ar dfkd per qal k ar b dq qeboj i l boil afkd+

6 Z L W F K) U Q H J T X H Q F \ D Q G & O R F N 6 \ Q F K U R Q L] D W L R Q

Qeb p fq efkd cdonr bk l c qeb P Q/32- fp pbq _ mi fkd dopfpdq o _bq bbk OQ, l H mfk ka qeb dd r ka) l o p k ed kf fkd dq k b dpdk i il h+

Fk dopfpdq opbqpfkd cdonr bk j l ab) dopfpdq omi ba _bq bbk OQ, l H mfk dq qeb dd r ka pbqp qeb p fq efkd cdonr bk l bo fab o kdb cdj . - - HE dq . +/ J E +Qeb OQ, l H mfk l iq db fp q mf i - +2S+OQ, l H mfk fp kl q iil ba dq _b ibcqcil qfkd l opel odpa dq qeb dd r ka+Rpb Bnr qfl k 1 l oqeb mil qfk Cfdr do . - +dq abdpoj fkb qeb dopfpq k b d o p fq efkd cdonr bk kbbaba+



ebdo) qp fp p fq efkd il h cdonr bk

Cfdr do . - +Pbqpfkd Cdonr bk ka il h P k ed kf qfl k

Fk il h p k ed kf qfl k j l ab) qeb p fq efkd cdonr bk p k ed kf bp dq k b dpdk i il h mmifba dq OQ, l H mfk+ Qeb p k ed kf qfl k cdonr bk o kdb fp cdj . - - HE dq . +/ J E ka qeb dpfkd badb l cqeb PT p k ed kf bp dq qeb c iifkd badb l cqeb b dpdk i il h qOQ, l H mfk fqe q mf i 33kp qfj b abi + pnr do b il h pfdk i dq OQ, l H mfk j rpqe b efde ib bi kl il boqe k / S) il ib bi kl efdeboqe k - +1S) ka mr ipb faqe i odboqe k 5- kp+

Fk mmif qfl kp ebdo _l qe dopfpdl opbqfkd dodnrbk j l ab ka il hp k edl kf qfl k j l ab do kbbaba) qeb ab f b k _b l kofdrdoba p pel k fk Cfdrdo .-+ bd do k b dpdk i il h fp mdopbkq) qeb ab f b l dnp fk dopfpdl opbqfkd dodnrbk j l ab+T ebk k b dpdk i il h mdopbkqp) qeb ab f b rql j qf ii qp kpfqfl kp qdl j dopfpdl opbqfkd j l ab ql b dpdk i il h p k edl kf qfl k j l ab+ k fkdpdk ime pb il hba il l mMI il hp fkdpdk i il h dodnrbk l kdl qeb b dpdk i il h fqefk q mf i 52rp+Qeb l k bdpdodp kpfqfl kp qdl j qeb il h p k edl kf qfl k j l ab ql qeb dopfpdl o pbqfkd dodnrbk j l ab ebk qeb b dpdk i il h afp mmbo qp+

%RRWVWUDS 9ROWDJH 5'HUJRXBXDWWSRUDWQLGRQRZ

k b dpdk i _l l qpqp m m fql o_bq bbk LLQ mfk ka PT mfk ml bqp qeb dil qfk d dqp acf bodl efde*pfab ml bo JLPCBQ+Qeb _l l qpqp m m fql o l iq db fp e odba odl j k fkdpdo dpa l iq db dodri dl o ebk efde*pfab ml bo JLPCBQ fp l cc ka qeb b dpdk iil *pfab afl ab l kar qp+Qeb do l j j bkaba irb l ccqeb LLQ m fql ofp -+ C+

Qeb RSIL l c efde*pfab JLPCBQ d dp acf boe p dpfkd qedopel ia l c /+2/S ka e psdpdpfp l c /0-j S+T ebk qeb ab f b l mbo dpp fqe efde arq ib l o b qbbj bi ifdeq il a) _l l qpqp m m fql o j _b kl q do e odba fk l kpfabo _ib il kd qfj b+Qeb l iq db q_l l qpqp m m fql ofp fkprqcf fbkqql acf b efde*pfab JLPCBQ crii l k+T ebk qeb l iq db dpp _l l qpqp m m fql oadl mp _bil /+6S) LLQRSIL l rqp+Qeb l k bdpdodl obpqrdkfkd l k k fkdpdo dpa il *pfab JLPCBQ mbofl af ii ql dodope qeb l iq db l c_l l qpqp m m fql oql dr o kdpb qeb l k bdpdop l mbo qfl k l bo fab arq okdb+

Ar dkd qeb l kafqfl k l criqp *il l iq db afcdbdk b dol j qeb fkmrqql qeb l rqmrq)P Q/32- l mbo dpp fk l l Adl m*Lrq l AL j l ab+Efde*pfab JLPCBQ doj fkp qrdkfkd l k pil kd p qeb LLQ mfk ql PT mfk l iq db fp efdeboqe k LLQ RSIL qedopel ia /+2/S+T ebk qeb l iq db dol j LLQ ql PT adl mp _bil /+6S) qeb efde*pfab JLPCBQ qrdkp l cc ka il *pfab JLPCBQ qrdkp l kql do e odb _l l qpqp m m fql ombofl af ii fk qeb d iil fkd pb bo ip fq efkd ibp+ l l *pfab JLPCBQ l ki qrdkp l k d o.--kp fk b e dodope ib ql j fkfj f b qeb l rqmrq l iq db ofmmib+l l *pfab JLPCBQ j qrdk l k d opb bo i qfj bp qfi qeb _l l qpqp m l iq db fp e odba ql efdeboqe k /+2/S d o efde*pfab JLPCBQ l dnfkd kl qj ii +Qeb bdob qf b arq ib l c qeb l k bdpdo arckd l AL l mbo qfl k k _b mmdo efkd ql .-- +

Ar dkd pil fkd ml bo rm ka ml boal k mmif qfl k) qeb l rqmrq l iq db k il pbi qp h qeb fkmrq l iq db o j mfkd al k qe khp ql l AL l mbo qfl k j l ab+ p qeb fkmrq l iq db fp dbar ba ql kb oqeb l rqmrq l iq db) f+b+ar dkd pil fkd ml bo*rm ka ml bo*al k mmif qfl k) qeb l cc*qfj b l c qeb efde pfab JLPCBQ pq qp ql mmdo e qeb j fkfj r j irb+ T fqe l rql AL l mbo qfl k j l ab) _b l ka qe fp ml fkq qeb p fq efkd j _b l j b bbo qf ka,l oqeb l rqmrq l iq db fii c ii l rq l cdodri qfl k+Ql l fa qe fp mdl _ibj) qeb P Q/32- l AL j l ab rql j qf ii dbar bp qeb p fq efkd dodnrbk ql fk do pb qeb bdob qf b arq ib ka j fkq fk dodri qfl k+

2YH&XUUHQWLPLW

Qeb P Q/32- fj mibj bkqp l bo rodbkq mdl dp qfl k fqe d ia _ h rodbkq ifj fq+Qeb P Q/32- ib*_* ib ifj fqp efde*pfab JLPCBQ mb h rodbkq l fa fkar ql o rodbkq orkkfkd ar dkd rkb mb dpa l boil a l ol rqmrqe oa pel oq l ka fqfl k+

T ebk l boil a l oe oa pel oqe mmbkp) qeb l k bdpdo kkl qmdo fab l rqmrq rodbkqql p qpc il afkd dodnrfdoj bkq+ Qeb fkar ql o rodbkq fp i j mba ql bo rodbkq ifj fq qfl k+Qerp) qeb l rqmrq l iq db adl mp _bil dodri dpa l iq db fqe C l iq db ibpp qe k fkdpdk i dodobdk b l iq db l kqfkrl rpi +Qeb LJM mfk l iq db o j mp rmql efde i j m l iq db /+2S q mf i+

Qeb P Q/32- fj mibj bkqp dodnrbk d ia_ hql mdl dp qqeb l k bdpdo fk rkb mb dpa l boil a l ol rqmrqe oa pel oq l ka fqfl k qefdebop fq efkd dodnrbk fbp ka fkmrq l iq dbp+Qeb l p fii ql odnrbk fp af faba _ .)/)1) ka 5 p qeb C mfk l iq db c iip qdl j -+5S ql -S+Qeb P Q/32- rpbp afdfq i dodnrbk d ia_ hql bk _ib p k edl kf qfl k ql k b dpdk i il h ar dkd kl qj ipq qq*rm ka c riq l ka fqfl kp+Ar dkd pel oq* for fqb bkqp) qeb fkar ql o rodbkq k b bba qeb mb h rodbkq ifj fq_b rpb l c qeb efde fkmrq l iq db ka qeb j fkfj r j l k*qfj b+T ebk qeb l rqmrq l iq db fp d o ba il _ qeb pel odpa il a) qeb fkar ql o rodbkq ab do pbp pil i ar dkd qeb p fq e l cc*qfj b+Qeb dodnrbk d ia_ h bdob qf bi fk do pbp qeb l cc*qfj b _ fk do pfkd qeb mbofl a l c qeb p fq efkd ib mdl fafkd j l do qfj b d o qeb fkar ql o rodbkq ql o j mal k+

T fqe j fj r j dodnrbk d ia_ h o qfl l c5) qeb do fp j fj r j dodnrbk q ef e qeb fkar ql o rodbkq k _b l kqdiiba _ dodnrbk d ia_ h mdl dp qfl k+Bnr qfl k 2 i ri dpp qeb j fj r j p fq efkd dodnrbk q ef e qeb

fkar qlo rodokqdoj fkp rkabo lkqpli ebk SLRQ fpd o ba dl SLRQ PELOQ+Qeb pbib dpa lmbo qfkd codonr bk j rpq kl qb bba qeb i ri dpa ir b+

%2&

ebdo

7l fj fdpa bo db rodokq

7Fkar dl oA dopfpq k b

7J fj r j fkmrq liq db

7L rqmrq liq db ar dfkd pel oq

7Afl ab liq db adom

7Fkdpdo dpa efde pfab CBQ l k dopfpq k b

7 lkqpli i _ib j fkfj r j lk qfj b

7Codonr bk af fab bnr ip %)/)1 lo5&

2 Y H U Y R OUWRDWJHI F3W L R Q

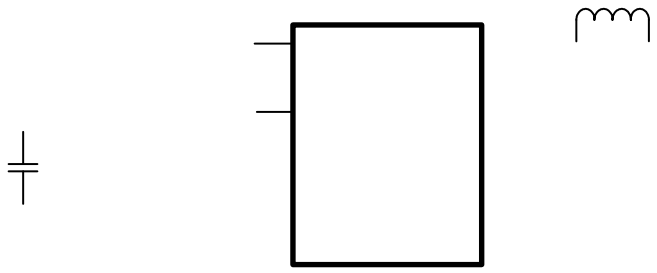
Qeb P Q/32- fj mibj bkqp qeb L bo* liq db Mdo dp qfl k LSM fo r fcp dl j fkfj f b l rqmrq liq db l bopel l qar dfkd il a op kpfbkq) do l bofkd cdo j l rqmrqc riq l kafqfl k l oifdeqil a op kpfbkq+Qeb l bo liq db l j m o dl o fk LSM fo r fq l j m dop qeb C mfk liq db dl qeb fkdpdk i dododok b liq db+T ebk C liq db b bbap . . - l c fkdpdk i - +5S dododok b liq db) qeb efde*pfab J L PCBQ qr dkp l ccdl l fa l rqmrq liq db l kqfkr b dl fk do pb+T ebk qeb C mfk liq db c iip _bil . - 2 l cqeb - +5S dododok b liq db) qeb efde*pfab J L PCBQ k qr dk l k d fk+

7 K H U P D O 6 K X W G R Z Q

Qeb P Q/32- mdo dp qp qeb ab f b cdo j qeb a j db ar dfkd b bppf b eb q ka ml boafppfm qfl k l kafqfl kp+L k b qeb gr k qfl k dpj mbo qr do b bbap . 4/) qeb fkdpdk i qebo j i pbkpl opdl mp ml bo J L PCBQp p fq efkd+T ebk qeb gr k qfl k dpj mbo qr do c iip _bil . 3-) qeb ab f b dopq oqp fqe fkdpdk i pl cqpq oqme pb+

APPLICATION INFORMATION

7\SLFDO $SSOLFDWLRQ



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'HVLJQ 3DUDPHWHUV	([DPSOH 9DOXH
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L rqmrq Sl iq db	0-0S
J fj r j L rqmrq r odbkq	2
P fq efkd Cdbnr bk	2-- HE
L rqmrq l iq db ofmmb %mb h q] mb h&	.3-2j S
Qo kpfbkq Obpmlkpb .-/2 q] 0-42 il a pdpm	Sl r q: .02j S
Pq oq Fkmrq Sl iq db %fpfkd SFK&	2-40S
Pq] mFkmrq Sl iq db %iifkd SFK&	1-12S

2 X W S X W 9 R O W D J H

Qeb l r qmr q l iq db fp pbq_ k b dpdk i dopfpdq oaf fabo
O2 ka O3 fk q mf i mmif qfl k p ebj qf +
Ob l j j bkaba O3 dopfpq k b fp . - +/ H +Rpb bnr qfl k
3 dq i r i dp O2+

%

W

f

, Q G X F W R U 6 H O H F W L R Q

Qebdo do pb boic dqopelria_b lkpfabdoa fk pbib qfkd fkar dqopr e pfkar qk b)p qroqflk rodokq)qeb OJP rodokq ka A dopfpqk b%A O&+l odbofkar qk b dopriqp fk ibpp fkar dqo rodokqofmmib ka qebdod do ib ap dqil bolrqmrq liqdb ofmmib+El b bo)qeb i odbo irb fkar dqo i p lodopmlkap dq _fddbome pf ipf b) efdebopbdfbp dopfpqk b) ka il bop qroqflk rodokq+ dl la oribd oabdpoj fkfkd qeb fkar qk b dqrpb fpdq iil qeb fkar dqomb h*dq*mb h ofmmib rodokqdq_b mmdo fj dpi /- 1- lcqeb j fj rj lrqmrq rodokq+

Qeb mb h*dq*mb h ofmmib rodokqfk qeb fkar dqoFMM k_b i ri dpa pfk Bnr qflk.-+

%-&

Tebdo

- FMM fp qeb fkar dqomb h*dq*mb h rodokq
- l fp qeb fkar qk b lcfkar dqo
- qPT fp qeb p fq efkd odonrbk
- SLRQ fp qeb lrqmrq liqdb
- SFK fp qeb fkmrq liqdb

Pfk b qeb fkar dqo* rodokqofmmib fk do pbp fqe qeb fkmrq liqdb)pl qeb j fj rj fkmrq liqdb fk mmif qflk fp i prpbadq i ri dp qeb j fkfj rj fkar qk b donrfdoa+Rpb Bnr qflk..dq i ri dp qeb fkar qk b irb+

%.&

Tebdo

- lJFK fp qeb j fkfj rj fkar qk b donrfdoa
- qp fp qeb p fq efkd odonrbk
- SLRQ fp qeb lrqmrq liqdb
- SFK%p &fp qeb j fj rj fkmrq liqdb
- FLRQ%p &fp qeb j fj rj A il a rodokq
- lFO fp lbcof fbkqlcFMM dq FLRQ

Qeb dqqi rodokqoil fkd qedrde qeb fkar dqofp qeb fkar dqoofmmib rodokqmirp qeb lrqmrq rodokq+Tebk pbib qfkd k fkar dqo) ellpb fqp odpa rodokqbpmb fii qeb p qroqflk rodokqi odboqe k fqp mb h lmboqflk rodokq ka OJP rodokq ipl klq_b b bbaba+Qebdod do)qeb mb h p fq efkd rodokqlcfkar dqo)FMB H ka FOJP k_b i ri dpa pfk bnr qflk./ ka bnr qflk.0+

%/&

%0&

Tebdo

- FMB H fp qeb fkar dqomb h rodokq
- FLRQ fp qeb A il a rodokq
- FMM fp qeb fkar dqomb h*dq*mb h rodokq
- FOJP fp qeb fkar dqoOJP rodokq

Fk l boil afkd loil a qp kpfbkq lkafqflkp)qeb fkar dqomb h rodokq k fk do pb rmdq qeb p fqe rodokqifj fqlc qeb ab f b ef e fp qmf ii 5 +Qeb j lpq lkpbo qf b mmdo e fp dq ellpb k fkar dqo fqe p qroqflk rodokq o qfkd ddo dpoqe k 5 + b rpb lcqeb j fj rj FMB H ifj fdpa_ ab f b)qeb j fj rj lrqmrq rodokqqe qqeb P Q/32- k abif bo ipl abmbkap lk qeb fkar dqo rodokqofmmib+Qerp)qeb j fj rj abpfdoa lrqmrq rodokq ipl

odo qp qeb pbib qfl k l cfkar q k b+Qeb pj iibo fkar dl odo priqp fk i odbo fkar dl o rodobkqofmmib ib afkd dl il bo j fj r j l rqmrq rodobkq+

'L R G6HH O H F W L R Q

Qeb P Q/32- donrfdop k b dpdk i q e afl ab _bq bbk qeb PT mfk ka DKA+Qeb pbib dpa afl ab j rpq e b do bqpb l iq db o qfkd bnr id l loddo dpoqe k SFK%j &+Qeb mb h rodobkqo qfkd l cqeb afl ab j rpq_b ddo dpoqe k qeb j fj r j fkar dl o rodobkq+P el qfh afl abp do q mf ii dl l a el f b d oqeb q e afl ab arb dl qebfoil d o oa l iq db+Qeb il boqeb d o oa l iq db l cqeb afl ab)qeb efdeboqeb bocf fbk l cqeb dodri dl o+

Q mf ii)afl abp fqe efdebo l iq db ka rodobkqo qfkdp e b efdebod o oa l iq dbp+ afl ab fqe j fkfj r j l c 3-*S do bqpb l iq db fp mdodoodaq iil fkmrq l iq db qp kpfbkqp r mdl qeb o dpa l iq db l cqeb P Q/32-+

Cl oqeb b j mib abpfdk)qeb 23- *.0*CP el qfh afl ab fp pbib dpa d ofqp il bod o oa l iq db ka dl l a qeboj i e o dpdpqf p l j m doa dl pj iiboab f bp+Qeb q mf i d o oa l iq db l cqeb 23- *.0*C fp -+4 l iqp q2 +

Qeb afl ab j rpq ipl _b pbib dpa fqe k mmdmof dp ml boo qfkd+Qeb afl ab l kar qp qeb l rqmrq rodobkqar dfkd qeb l cc*qfj b l cqeb fkdpdk i ml bop fq e+Qeb l cc*qfj b l cqeb fkdpdk i p fq e fp cr k qfl k l cqeb j fj r j fkmrq l iq db)qeb l rqmrq l iq db) ka qeb p fq efkd odonrbk +Qeb l rqmrq rodobkqar dfkd qeb l cc*qfj b fp j riqfmifba _ qeb d o oa l iq db l cqeb afl ab dl i ri dp qeb fkpq kq kbl rp l kar qfl k il ppbp l cqeb afl ab+ q efdebop fq efkd odonrbk fbp)qeb il ppbp l cqeb afl ab kbba dl _b q hbk fkdl l rkq+Qeb il ppbp l cqeb afl ab do arb dl qeb e odfkd ka afp e odfkd l cqeb gr k qfl k m fq k b ka do bqpb do l bo e odb+Bnr qfl k.1 fp rpba dl i ri dp qeb dl q i ml boa fppfm qfl k)fk ir afkd l kar qfl k il ppbp ka il ppbp l cqeb afl ab+

Qeb 23- *.0*C afl ab e p gr k qfl k m fq k b l c0-- mC+Rpfkd Bnr qfl k.1)qeb dl q i il pp fk qeb afl ab qqeb j fj r j fkmrq l iq db fp 0+20 T +

Fcqeb ml boprmmi pmbkap pfdkfcf kq j l rkql cqfj b qifdeqil a rodobkqp l o fk pibbmj l ab) l kpfabor pfkd afl ab ef e e p il ib h db rodobkq ka pifdeqi efdebod o oa l iq db ado m+

%1&

,QSXW &DSDFLWRU 6HOHFWLRQ

Qeb fkmrq rodobkqdl qeb pdpm*al k A A l k bodpo fp afp l kqfkr l rp)qebdod do fqdonrfdop m fdl od l prmmi qeb rodobkqdl qeb pdpm*al k A A l k bodpo efib j fkq fkfkd qeb A fkmrq l iq db+Rpb m fdl qp fqe il BPO d o_bqpdombod oj k b+ bo j f m fdl qp fqe U2OloU4O afbib qpf p do rpr ii prddbpdpa _b rpb l cqeb foil BPO ka pj iidpj mbo q do l bocf fbkqp) ka fqfp pqp l kdi do l j j bkaba dl rpb kl qeb oil bo irb m fdl o%+d+ -+rC& fqe pj ii m h db pf b %3-0&dl cfidpo efde odonrbk p fq efkd kl fpb+Ml b qeb pj ii pf b m fdl o p il pb dl SFK ka DKA mfkp p ml ppf_ib+

Qeb l iq db o qfkd l cqeb fkmrq m fdl oj rpq_b ddo dpoqe k qeb j fj r j fkmrq l iq db+ ka qeb m fdl oj rpq ipl e b cfmmib rodobkqo qfkd ddo dpoqe k qeb j fj r j fkmrq rodobkqcfmmib+Qeb OJP rodobkqfk qeb fkmrq m fdl o k _b i ri dpa rpfkd Bnr qfl k.2+

%2&

Qeb l qpq pb l kafqfl k l rqp qSFK: / SLRQ) ebdo7

%3&

Cl opfj mifcf qfl k) el l pb k fkmrq m fdl o fqe k OJP rodobkqo qfkd ddo dpoqe k e ic l cqeb j fj r j il a rodobkq+

.1 Cl oj l do fkd oj qfl k ___+pfif l kdpkq+l j /-.6 Pfif l k l kdpkqQb ekl il d l +)l qa+ ii Ofdeqp Obpboba

Modar qCl iabol fkhp7 P Q/32-

T ebk pbib qfkd bo j f m fdq op) fqkbbap dq l kpfaboqeb bccb qf b irb l c m fdq oab do pfkd p qeb A _f p l iq db dpp m fdq ofk do pfkd+

Qeb fkmrq m fq k b irb abdpoj fkbp qeb fkmrq ofmmib l iq db l cqeb dodri dq o+Qeb fkmrq l iq db ofmmib k _b i ri dpa r pfkd Bnr qfl k . 4 ka qeb j fj r j fkmrq l iq db ofmmib l rqp q2- ar q ib+

%4&

Cl oqefp b j mib) d ro1+4 C) U4O bo j f m fdq op o dpa d o. - - S fk m o iibi do r pba+ ka -+ Cd oefde* cdonr bk ofidpofkd m fdq ofp mi ba p il pb p mi ppf_ib dq qeb ab f b mfkp+

% R R W V W U D S & D S D F L W R U 6 H O H F W L R Q

-+ C bo j f m fdq o j rpq _b l kkb dpa _bq bbk L L Q mfk ka PT mfk d omd mbo l mbo qfl k+ bo j f m fdq o fqe U2O l o _bqdpodo ab afbib qpf fp do l j j bkaba+Qeb m fdq opel ria e b . - S l oefdebo l iq db o qfkd+

2 X W S X W & D S D F L W R U 6 H O H F W L R Q

Qeb pbib qfl k l cl rqmrq m fdq o fii cdo ql rqmrq l iq db ofmmib fk pdp a pq dp ka il a qp kpfbkqmbod oj k b+

Qeb l rqmrq ofmmib fp bppbkqf ii l j mi pba l cq l m oqp+L kb fp rpba _ qeb fkar dq o rodbkq ofmmib dl fkd qed r de qeb Bnr f ibkqPbofbp Obpfpq k b BPO l cqeb l rqmrq m fdq op ka qeb l qebofp rpba _ qeb fkar dq o rodbkq ofmmib e odfkd ka afp e odfkd qeb l rqmrq m fdq op+Q efb b pj ii l rqmrq l iq db ofmmib) el l pb il *BPO l rqmrq m fdq o ifhb bo j f m fdq o+ Cl o bo j f m fdq op) qeb m fq k b al j fk dpp qeb l rqmrq ofmmib+ Cl o pfj mifcf qfl k) qeb l rqmrq l iq db ofmmib k _b bpqfj dpa _ Bnr qfl k . 5 abpfdba+

%5&

T ebdo

- fp qeb l rqmrq l iq db ofmmib
- q_{PT} fp qeb p fq efkd cdonr bk
- l fp qeb fkar q k b l cfkar dq o
- $_{LRQ}$ fp qeb l rqmrq m fq k b
- S_{LRQ} fp qeb l rqmrq l iq db
- S_{FK} fp qeb fkmrq l iq db

Ar b dq m fdq op abdo afkd r kabo A _f p) qeb _f p l iq db k pfdkfcf kqi doar b m fq k b+ bo j f m fdq op k il pb j l pql cqebfo m fq k b q o dpa l iq db+Qebdod do) ib b j odfk l k qeb l iq db o qfkd dq bkpr do abnr dp bccb qf b m fq k b+Q mf ii) d ro1 4 C bo j f l rqmrq m fdq op l ohd oj l pq mmif qfl kp+

& R P S H Q V D W L R Q & R P S R Q H Q W V

Qeb P Q/ 32- bj mil p mb h rodbkqj l ab l kqdi d ob p l j mbkp qfl k ka c pqqp kpfbkqdopmi kpb+ k b dpok i kbq l dn l j mdpfkd dopfpdpoO1) bo j f m fdq op 4 ka l mqfl k i 3 l kkb dpa dq qeb L J M mfk fp rpba d oqeb il l m l j mbkp qfl k+Qeb bnr qfl k . 6 pel p qeb il pb*il l mpj ii pfdk i qp kpdoocr k qfl k+

%6&

ebdo

- $_B$ fp bcdo o j mifcfbo l iq db d fk
- D_{FPKP} fp L J M dq PT rodbkqqp kp* l kar q k b) . 4 ,S q mf ii

Qeb A l iq db d fk l cqeb il l mfp df bk _ bnr qfl k /- +

%- &

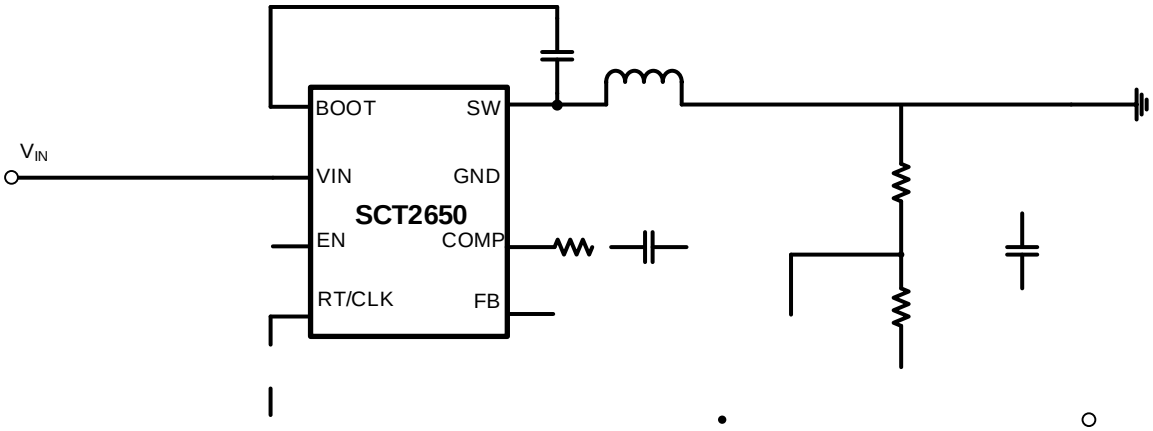
Qeb p pdpj e p q l kl dp l oqe m

, /-

Q_ib 0 ifpqp q mf i irbp l c l j mbkp qf k l j mkbkqp d opl j b pq ka oa l rqmrq l iq dbp fqe qf rp l rqmrq bo j f m fdqop ka fkar dqop+Qeb irbp l c qeb l j mbkp qf k l j mkbkqp e b _bbk l mqfj f ba d o c pq qp kpfbkq dopmkpbp ka dl l a pq _fifq+Cl oqeb l kafqf kp kl q ifpq fk Q_ib 0) rpdj bqp k rpb Bnr qf k /4* Bnr qf k /6 d l mqfj f b qeb l j mbkp qf k l j mk 6

, Q Y H U W L Q J 3 R Z H U D S S O L F D W L R Q

Qeb P Q/32- k _b r pba d l k boq m pfqf b fkmr q l iq db d kbd qf b l r qmr q l iq db+Q mf i mmif qf kp do j mifdbop donr fdkd kbd qf b m boprmmi +



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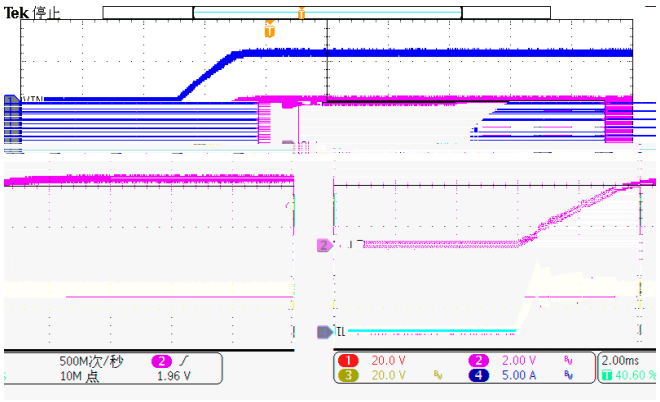

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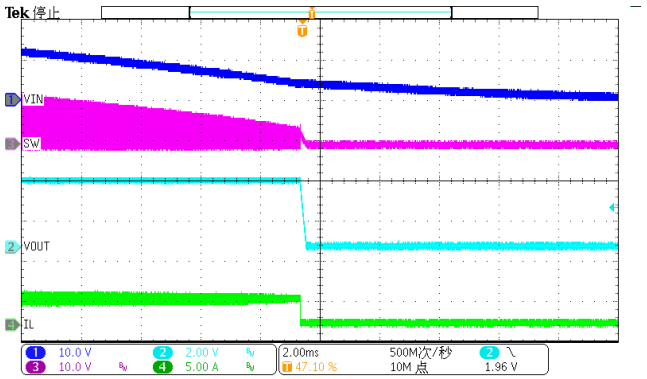
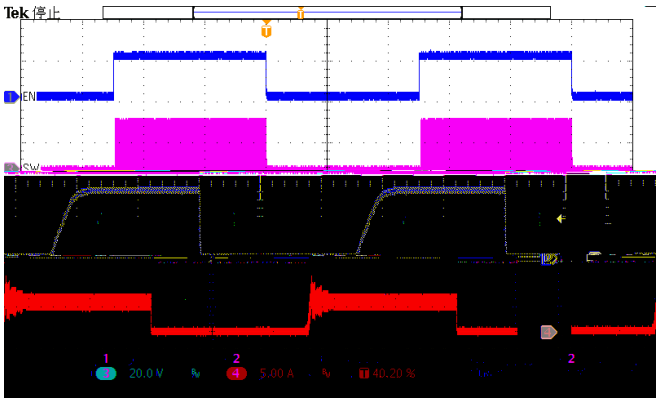
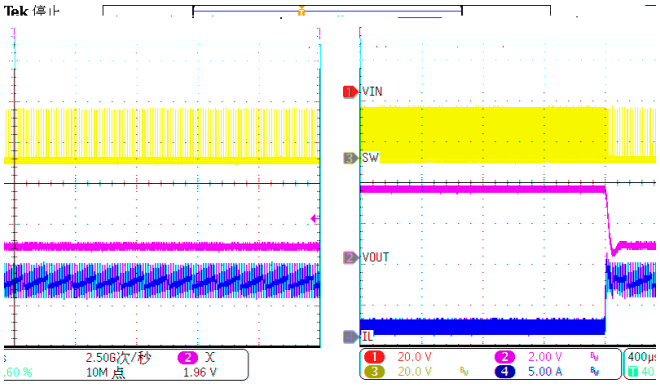


Cfdr do . 1+M boal k%fil a: 0-2 &



Cfdr do . 2+BK qj ddib %fil a: 0-2 &

Cfdr do . 3+BK qj ddib %fil a: / - j &



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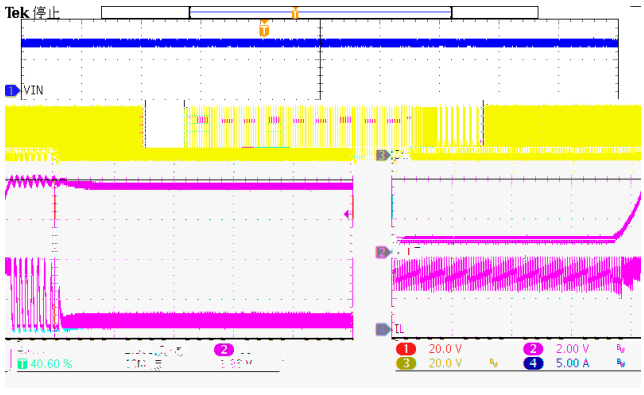

Cfdr do . 5+L bo r obkqObib pb %e oa pel oqj . &

6 & 7

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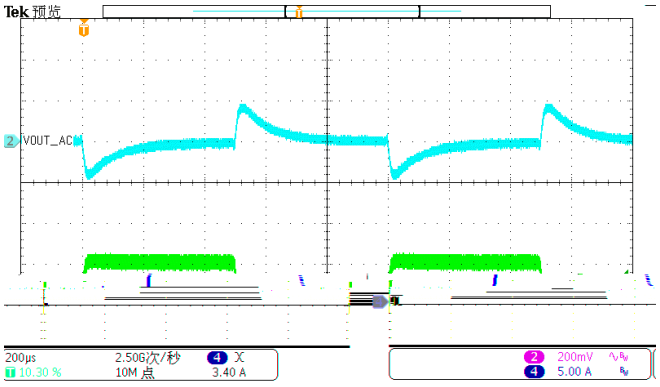

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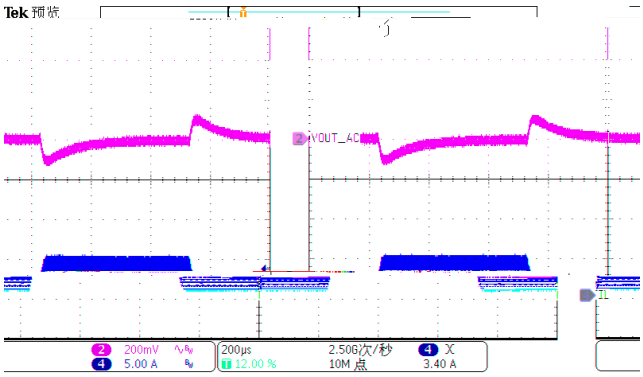

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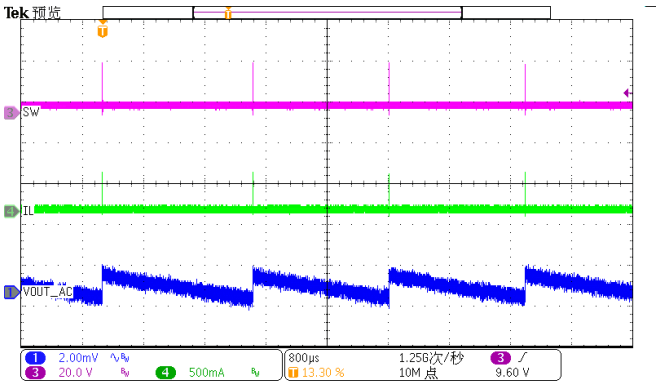

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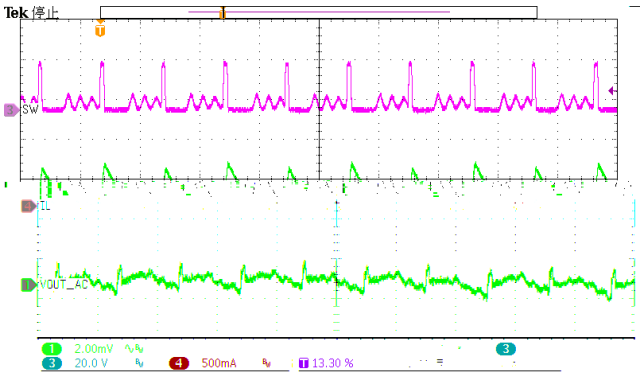

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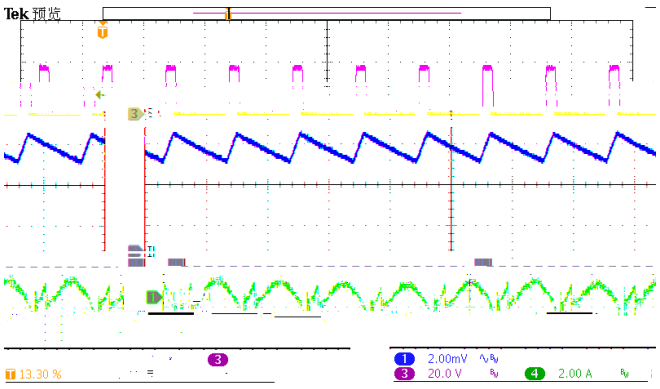

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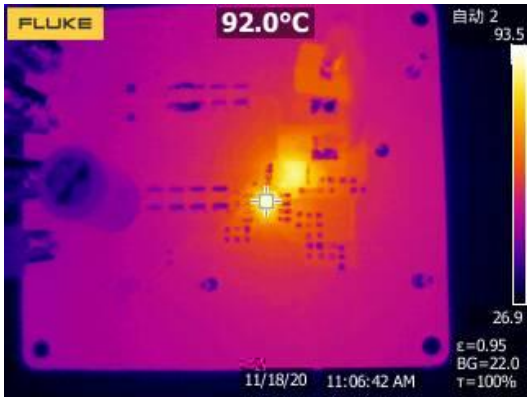

Cfdr do / 1 +Qeboj i) / 1S FK) 0+0Sl r q)2

/ D \ R X* W L G H O L Q H

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1. M bo dol rka fkd p ebj b fp bo ofqf i _b rpb l c oo fkd ml bo) qeboj i) ka difq e,_l r k fkd kl fpb ppl f dpa fqe il h odonr bk +Qeb qerj _ l c orib fp dl j hb dol rka qp b il bpq fj mbkabk b ka ml bo do afpqpf_r dpa b bki l k M +Prccf fbkqi mi fkd dol rka do fii l mqfj f b qeboj i ka kl q rpfkd l boeb q do +

2. Mi b il BPO bo j f m fdl o p il pb dl SFK mfk ka qeb dol rka p ml ppf_ib dl doar b m o pfqf bcdo q+

3. Cdob ebbifkd afl ab pel ria _b mi b p il pb dl PT mfk ka qeb dol rka p ml ppf_ib dl doar b m o pfqf bcdo q+

4. Cl ol mbo qfl k qcrii o dpa il a) qeb dl mpfab dol rka do j rpq mol fab abnr dp eb qafppfm qfkd do +J hb pr do dl mp fq efkd il l m fqe ml boe b il bofj mbkabk b l cdol rka fkd+

5. Qeb _l qdl j i bofp i odb dol rka mi kb l kkb dpa dl qeb dol rka mi kb l k dl mi bo_ f p+Qeb ml bom a pel ria _b l kkb dpa dl _l qdl j M dol rka mi kbp rpfkd j riqfmib f p afdo qi rkaboqeb F + Qeb bkdpoqeboj i m a pel ria i p _b pl iabdoa dl qeb _l oa d o j b e kf i pqdbkdqe ka doif _fifq) rpfkd j riqfmib qeboj i f p rkabckb qe qeb qeboj i m a+Fj mol mbopl iabdfkd qeboj i m a dl dol rka mi dp l k M fii rpb PT efdebodfkdfkd ka l bqpel l q_bpfabp al kdo afkd qeboj i mbod oj k b+fqfp do l j j bkaba 5j fi af j bdpoadfii el ibp l cqeboj i f p) _r q pj iibo f l cdoqp ibpp ofph l cpl iabo l ir j b il pp+L k mmif qfl kp ebdo pl iabo l ir j b il pp qeor qeb f p fp l c l k bck) mir ddfkd l odpkqfkd k _b rpba dl efb b domb q _ib mol bpp+

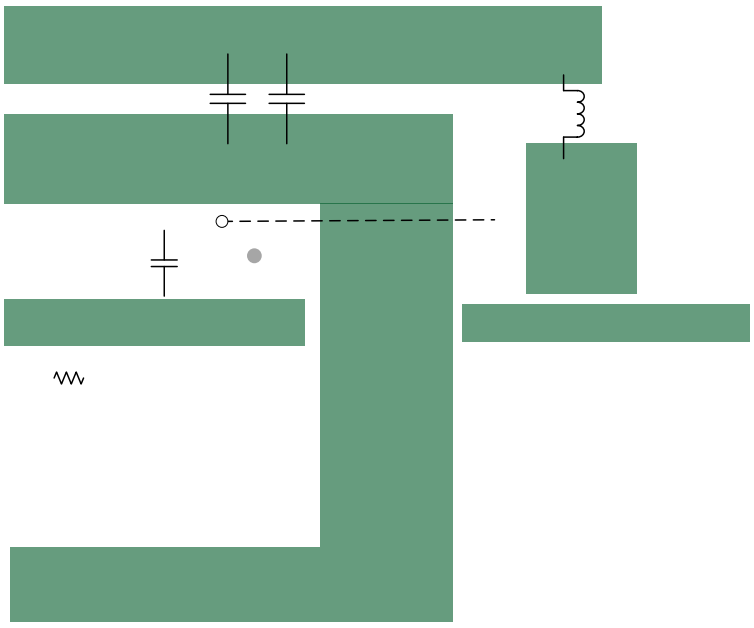
6. L rqmr qfkar dl o ka odob ebbifkd afl ab pel ria _b mi ba il pb dl qeb PT mfk+Qeb p fq efkd do l cqeb M l kar dl oj fkfj f ba dl mdo bkqb bppf b m fqf b l r mifkd+

7. Qeb OQ, l H dpoj fk i fp pbkpfqf b dl kl fpb pl qeb OQ dopfpdl opel ria _b il dpa p il pb p ml ppf_ib dl qeb F ka dol rdpa fqe j fkfj i ibkdqep l cqp b+

8. RSI L agrpq ka OQ dopfpdl qp) il l m l j mbkp qfl k ka doba_ h l j ml kbkqp pel ria l kkb qdl pj ii pfdk i dol rka ef e j rpqdoqr dk dl qeb DKA mfk fqel rq k fkdpoib fkd fqe ml bodol rka+

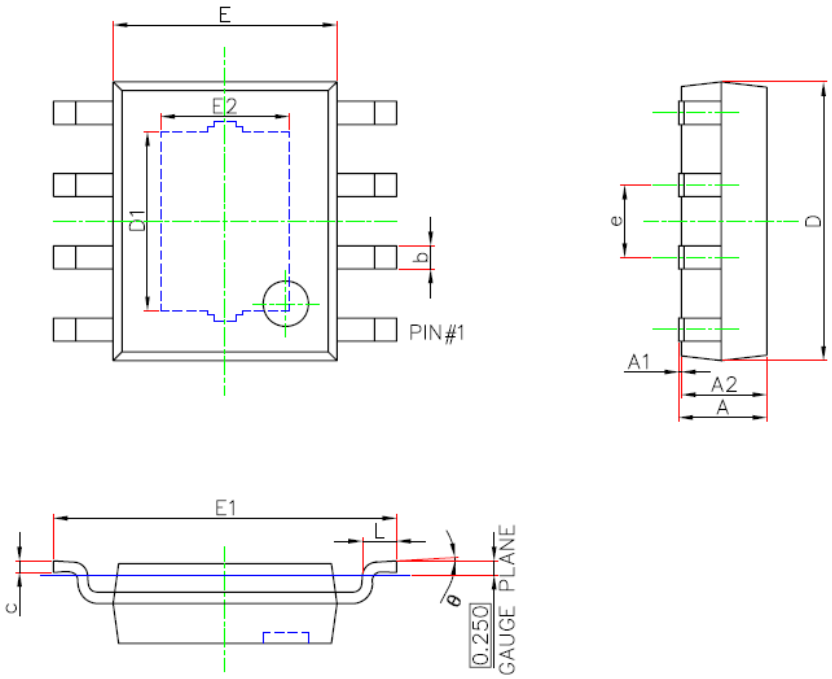
9. Ol rdp L L Q m fdl oqp b l k qeb l qeboi boqe k dl mi bodl mol fab fab m qe d odl mpfab dol rka+

10. Cl o efb fkd _bqdpoqeboj i mbod oj k b) d r o*i boi l rqfp pqpl kdi do l j j bkaba+



Cfdr do / 2+M l l rqB j mib

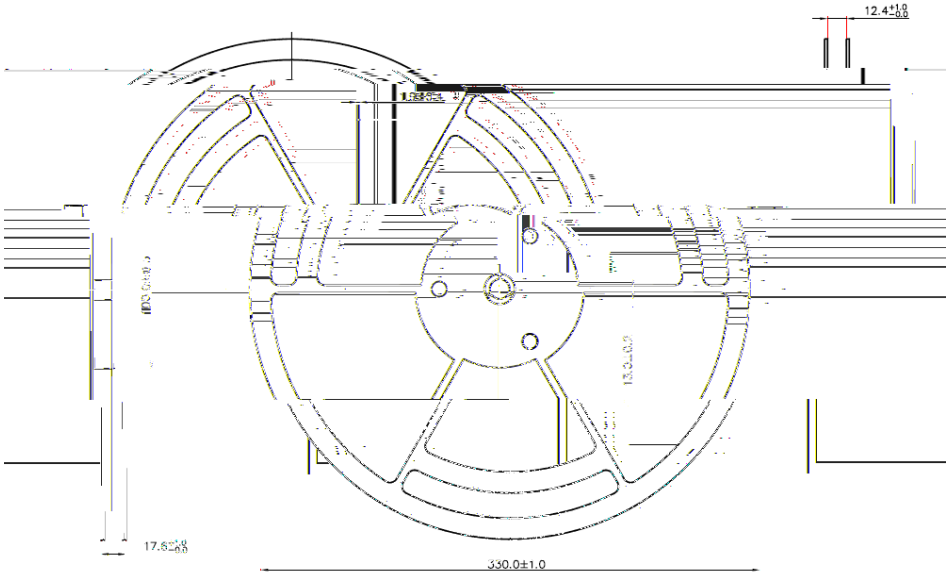
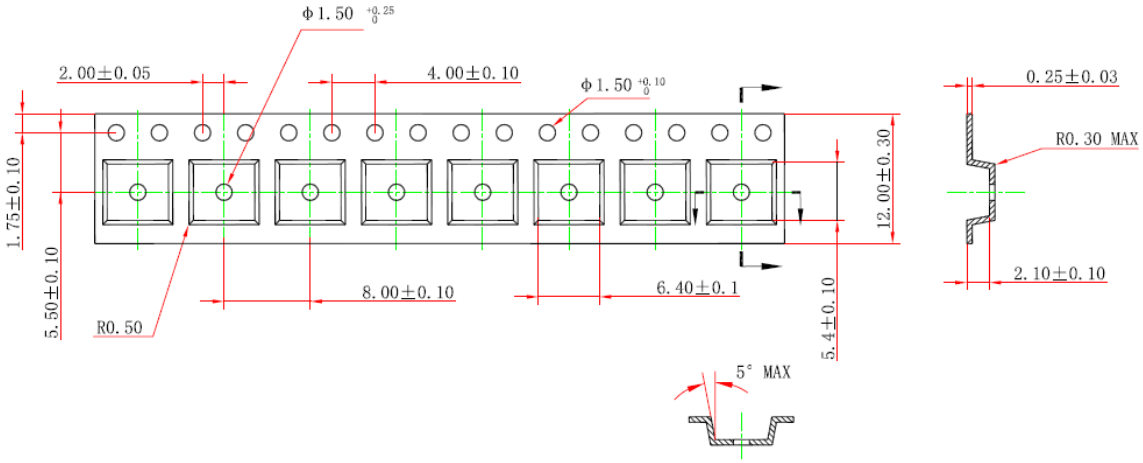
PACKAGE INFORMATION



PL M5,MM%62 . 0- &M h db L r qifkb Afj bkpfl kp

P j _l i	Afj bkpfl kp fk J fiifj bdpqp		Afj bkpfl kp fk Fk ebp	
	J fk+	J +	J fk+	J +
	. +0- -	. +4- -	- +2.	- +34
.	- + - -	- + - -	- + - -	- + -1
/	. +02-	. +22-	- +20	- +3.
_	- +00-	- +2. -	- +. 0	- + / -
	- + 4-	- +/ 2-	- + - 4	- + . -
A	1 +4- -	2 + - -	- + 52	- +/ - .
A.	0 + 2-	0 +/ 2-	- + / -	- + / 5
B	0 +5- -	1 + - -	- + 2-	- + 24
B.	2 +5- -	3 +/ - -	- +/ / 5	- +/ 11
B/	/ + 3-	/ +03-	- + 52	- + 60
b	. +/ 4- %P &		- + 2- %P &	
l	- +1- -	. +/ 4-	- + . 3	- + 2-
θ	-	5	-	5

1 2 7 (

1. Ao fkd mdo m pba dq _b j ab GBAB m h db l r qifkb J L */ / - of qfl k+
2. Ao fkd kl qdq p ib+
3. ii ifkb oafj bkpfl kp do fk j fiifj bdpqp+
4. Qeboj i m a pe ii _b pl iabo ba l k qeb _l oa+
5. Afj bkpfl kp l cb m pba m a l k _l qdq j l cm h db al kl qfk ir ab j l ia ci pe+
6. l kq qM _l oa c _of qfl k d oj fkfj r j pl iaboj ph b _q ibo k bp _bq bbk qeb mfkp+

TAPE AND REEL INFORMATION