4.5V-100V Vin, 1.2A, Step-down DCDC Converter

FEATURES

- S e a Ejl pN jca60*1R)-, , R
- -*.= kjpej k o K pl p rmajp
- . *31= l a g _ rmajphie ep
- Ejpacnpa 2, , i Dec d)Oe a j /, , i Hk) Oe a Lk anI KOBAPo
- -1 = M eao_ajp rmajp epd R ek a -2, = M eao_ajp rmajp epdk pR ek a
- Oaha_p ha LBI (QOI j BLS I KI an pekj l k ao
- -*.R . Baa _g Nabarmaj _a Rkhp ca
- 0*/ i o Ejpanj hOkbp)op npPie a
- Bea O ep_dejc Bnam aj _ p/, , GD
- KP kjprkhl k a
- BLS I i k a o l l krnpEok) _g Pkl kkc
- L rna_eoekj Aj ha Pdmaodkh bknLrkcn i i ha Ejl pRkhp ca Qj an)Rkhp ca Hk_g K pLrkpa_pekj QRHK%Pdmaodkh j D oparaoeo
- _ha)) _ha rmajpHie ep
- K an)Rkhp ca Lrkpa_pekj
- K an)Pai l an p rna Lrkpa_pekj
- = eh ha ej j AOKL)4 L _g ca

APPLICATIONS

- CLOpn _gan
- A) ega(O_kkpan
- >I O

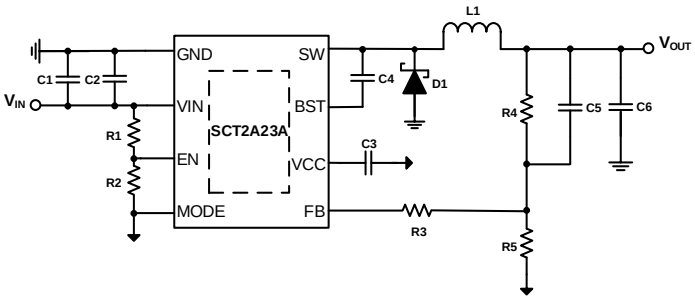
DESCRIPTION

Pda O P. =. / = ea -*. = Opal) k j _kj anpan epd e a ejl p khp ca(n jcejc bnki 0*1R pk -, , R(de_d ejpacnpao j 2, , i dec d)oe a l KOBAP j /, , i Hk)oe a l KOBAP* Pda O P. =. / =(kl pejc pda _kjop jp)kj pe a KP%i k a _kjprkh(o l l krnpo pda LBI i k a epd p l e_h-2, = Hk m eao_ajp _ rmajp de_d ooeapo pda _kj anpankj _dea ejc dec d abbe_eaj _ phec dphk knop j _kj epekj*

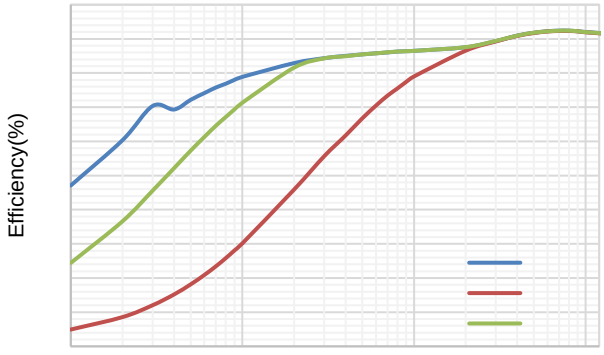
Pda O P. =. / = ba p rnao oaha_p ha k l an pekj i k a p hec dphk (de_d l rk e ao pda bha e ekep pk oaha_pL hoa Bnam aj _ l k h pekj LBI %pk _dea a dec d abbe_eaj _ p pda hec dp)Hk (Qhpn okje_l k a QOI %pk gaal pda o ep_dejc bnam aj _ k a e ha bnam aj _ na o nejc hec dp)Hk _kj epekj o j bkn_a L hoa S epd l k h pekj BLS I %pk _dea a oi Hhank pl p nel ha j o l l krnpeokh pekj _g pkl kkc *

Pda O P. =. / = kbbarno _ _ha))_ _ha _ rmajp hie ep l rkpa_pekj (pdari hod p k j l rkpa_pekj (k pl p k an) khp ca l rkpa_pekj j k an pai l an p rna l rkpa_pekj* Pda a e_a eo eh ha ej j 4)l ej pdari Hh ajd j _a AOKL)4 l _g ca*

TYPICAL APPLICATION



4.5V-100V, Buck Converter



. Bkni kma ejdkni pkj *oee kjpajp*ki . , , Oee_kj kjpajpPa_djkhkc k*(Hp * =hmNecdpo Naoan a

Lrk _pBkh anHsjgo6 O P. =. /=

B>	1	
R	2	K pl pbnki pda Ejpanj hDkcdRkhpca Nac hpkn* Pda ejpanj hR nac hpknlnk eao eoo llh bknpda c pa neamo j kpdanejpanj h _en_ epn*= hncanpd j -*; B a_k lhejc _l _ekneona ki i aj a *
>OP	3	Lk ano llh eobknkdkcd)oe alk anl KOBAP c pa neam* kjja_p ,*- B _l _ekn bnki >KKP lej pk OS lej*>kkpopn l _l _ekneo _d nca daj hk)oe alk anl KOBAP eokj knOS khpca eohk *
OS	4	Nac hpkno ep_dejc k pl p* kjja_pOS pk j a panj hlk anej _pkn
Pdanl hL	5	Da p eooe pekj l pdkb ea* Aha_pne_hh _kjja_pekj pk CJ lej*l op a _kjja_pa pk cnk j lh ja kj L > bkn lnklankl an pekj j klpie ea pdanl hl anbkni j_a*

RECOMMENDED OPERATING CONDITIONS

K ankl an pejc bnaa) enpai l an p na n jca jhaoo kpdan ea ajkpa

R_{EJ}	Ejl p khpca n jca	0*1	-,,	R
R_{KOP}	K pl p khpca n jca	-*:	/,	R
P_F	Kl an pejc f j_pekj pai l an p na	)0,	-.1	

ESD RATINGS

R_{AO}	D i j >k l k ahD>l %lan=JOEJFA A)FO),,-).,-0 ola_bee_pekj(hhlejo·%	)-	-	gR
	d nca a e_a l k ah l %lan=JOEJFA A)FO),,.) .,-0 ola_bee_pekj(hhlejo·%	),*1	,*1	gR

(1) FA A k_i ajpFAL-11 op pao pd p1,,R D>l hhk o o bai j b_p nejc epd op j n AO _kjpnkhl nk_aoo*
(2) FA A k_i ajpFAL-13 op pao pd p.1,R l hhk o o bai j b_p nejc epd op j n AO _kjpnkhl nk_aoo*

THERMAL INFORMATION

$N_{F=}$ -%%	F j_pekj pk i ea jppdanl hnaoeop j_a	//*5	
$_{FP}$ ·%	F j_pekj)pk)pkl _d n _pane pekj l n i apan	0*-/	
$_{F>}$ ·%	F j_pekj)pk) k n _d n _pane pekj l n i apan	--*4.	+S
$N_{F\,pkl}$ -%%	F j_pekj pk _ oa pdanl hnaoeop j_a	2-*2/	
$N_{F>}$ ·%	F j_pekj)pk) k n pdanl hnaoeop j_a	-.*/.	

-%O Plnk eao $N_{F=}$ j N_F j i ano kjh o nabanaj_a pk aopie pa f j_pekj pai l an p nao kbpda a e_ao*$N_{F=}$ j N_F na jkp _d n _panepe_kbl _g ca epoalb(pkbi j kpdano opai ha ah_d n _panepe_o o _d opda aoecj j h k pkbpdal nejpa _en_ ep k n L >%kj de_dpda O P.=./= eo i k jpa (pdanl hl oea(j a panj haj ekji ajp hb _pkno*Pda L > k n eo da poejg pd pe ookh ana pk pda ha o j pdanl hl kbpda O P.=./=* d jcejc pda aoecj kn_kjbec n pekj kbpda L > k n _d jcao pda abbe_ea j_ kbpda da poejg j pdanalbkna pda _p hN$_{F=}$ j N_F *
.%l a o na kj FAO 1-)3(0)h anL >*Pda h ao ce ajej pdie p ha na kjh he bkn_ki l nekj epdkpdanl _g cao j _ jjkp a oa bkn aoecj l nlkoao*Pdaoa h ao ana _h_ hpa ej __kn j_a epdFAO 1-)3 j oie hpa kj ola_bea FA A k n*Pda k jkpnal naoajppda l anbkni j_ak p eja ej j _p h llhe_pekj*

ELECTRICAL CHARACTERISTICS

RE 904R(PF9)0, -. 1 (p l e_h h a eo pa op a j an. 1 *

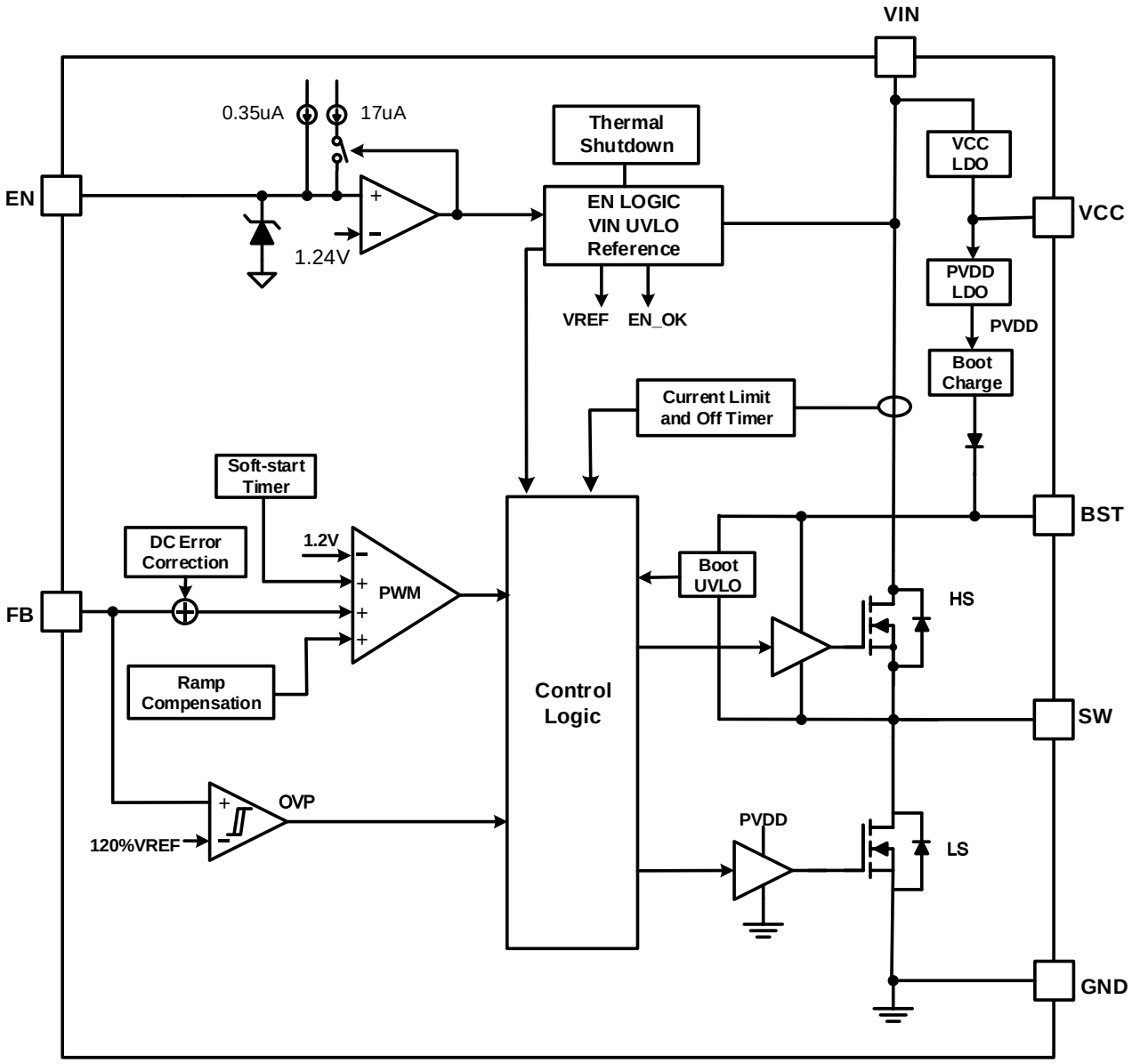
RE	Kl an pejc ejl p klp ca		0*1 -,,	R
R	R Nac h pknK pl p		3*/	R
R QRHK	R QRHK Pdmaodkh D opamaoeo	RE moeejc	0*- . 1,	R i R
ER HE	R ejpanj hH K _ majphie ep	R odkmppk crk j	/ ,	i =
EOD J	Od p k j _ majpbrki REJ l ej	AJ 9, (jk lk		

R_{KRL}	Baa _gk ankhpca epd naola_ppk nabanaj_a khpca	$R_{B>}$+R_{NAB} b hhej c	--1	
R_{QRL}	Baa _g j ankhpca epd naola_ppk nabanaj_a khpca	$R_{B>}$+R_{NAB} naeejc	4,	
		$R_{B>}$+R_{NAB} b hhej c	31	
P_O	Pdanihod pk jpdnaodkh&	P_F naeejc	-3/	
		D opanaoeo	.1	

& anea bnki aj_d_d n_pane pekj

TYPICAL CHARACTERISTICS

FUNCTIONAL BLOCK DIAGRAM



Bec ra 4*B j_pkj h>lk_g ecn i

OPERATION

Pda O P. =. / = eo 0*1R)-, , R ejl p(-*. = k pl p(Qpal) k j _kj anpan epd ekp)ej 2, , i N okj dec d) oe a j /, , i N okj lhk)oe a l k anl KOBAPo*Epie l hai ajpo_kjop jpkj pie a_kjpnkhpk nac h pa k pl p klp ca(l nk e ejc a _ahhajp hej a j lhk pn joeajp naolkjoa(j ejpanj hannkn i l heean hok _k h ie l nk a pda hej a+hk nac h pakj*

Pda a e_a ba p nao pdnaa ebanajp kl anpakj i k ao p hec dp lhk ejc 6L hoa Bnam aj_ l k h pakj LBI %i k a(Qlpn)Okj e_l k h pakj QOI %i k a j bkn_a L hoa S epd l k h pakj BLS I %Ej LBI i k a(O P. =. / = l nk e ao dec d hec dp lhk abbe_aj_(a_ oa O P. =. / = aoec j ohaal _kjpnkh p hec dp lhk bkn ie l nk a abbe_aj_*Ej QOI O P. =. / = gaal o pda o ep_dejc bnam aj_ k a e ha bnam aj_ na o pk ke e ha j ke oa*Ej BLS I O P. =. / = _dea ao lhk k pl p nie l ha j o l l kmpEok) _g pk l k lhkc *

Pda O P. =. / = ba p nao j ejpanj h0*/ i o okhp)op mppie a pk ke h nca ejn od _ nnajp j k pl p klp ca k anodkkp nejc op np l *Pda o ep_dejc bnam aj_ eo be a p/, , GD *Pda a e_a hok o l l kmpo i kjk hepde_op np l epd l na) e oa k pl p_kj epakj bknLOI i k a j QOI i k a*

Pda O P. =. / = d o ab hpejl pop mp) l klp ca kb0*-R epd. 1, i R d opanaoeo*Pda AJ l ej eo dec d) klp ca l ej epd l na_eokj pdnaodkh pd p_j a oa pk f op pda ejl p klp ca lhk_gk p pdnaodkh o epd p k a panj h nao epkno pk i aap __ n pa dec dan QRHK o opai nam enai ajpo*Blhk pejc AJ l ej aj hao pda a e_a epd pda ejpanj h l lh) l _ nnajp pk pda l ej* kjj a_pejc AJ l ej pk REJ eea_ph kn nao epkn elhop np l pda a e_a pki pe_lhn*

Pda O P. =. / = b hhl nkpa_pakj ba p nao ej_h a pda R ejl p j an) klp ca lhk_gk p(pda k pl p k an) klp ca l nkpa_pakj(k an _ nnajp l nkpa_pakj epd _ _ha))_ _ha _ nnajp hie ep(k pl p d n odkmp l nkpa_pakj j pdani h od p k j l nkpa_pakj*

Pda O P. =. / = ai l hk o _kjop jpkj)pie a KP%i k a _kjpnkh l nk e ejc b opp n joeajp epd l oa k be a o ep_dejc bnam aj_ *= ppda ac ejejc kba _d o ep_dejc _ _ha(oej_a pda baa _g klp ca RB>%eo lhk an pd j pda ejpanj h nabanaj_a klp ca RNAB%pda dec d)oe a l KOBAP M-%eo p nja kj nejc k j a kj)pie a j pda ej _pkn_ nnajp neaao pk _d nca l pda k pl p klp ca*Pda kj)pie a eo apani ej a pda ejl p klp ca j k pl p klp ca*= hpan pda kj)pie a(pda dec d)oe a l KOBAP M-%p njo kb o j pda lhk)oe a l KOBAP M. %p njo kj hpan a pie a n pakj* Pda ej _pkn_ nnajp nklo j pda k pl p_l _epkno na eo_d nca *S daj pda k pl p klp ca a_na oao j pda RB> a_na oa alhk pda RNAB knOO(pda M- p njo kj c ej hpan jk pdan a pie a n pakj*Pdeo nal a po kj _ _ha))_ _ha*

Pda O P. =. / = kngo epd j ejpanj h_ki l ajo pakj(ok _ opki an_k h oa pda a e_a a oeh(p ejc baa bkn n _l b hok l nk e aoba e ekep bknkl pie ejc pda lhkkl op ekep j pn joeajp naolkjoa*

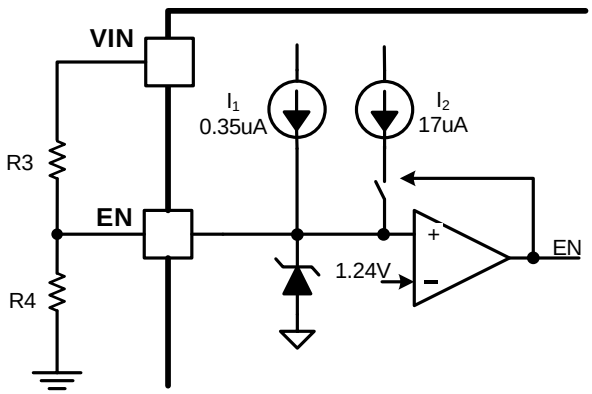
Pda O P. =. / = eo aj ha daj pda R l ej klp ca neao k p0*-R j pda AJ l ej klp ca a _aa o pda aj ha pdnaodkh kb-*. 0R*Pda a e_a eo eo ha daj pda R l ej klp ca b hho alhk /*44R kn daj pda AJ l ej klp ca eo alhk -*. /R*Ejpanj hl hn l _ nnajp ok n_a pk AJ l ej lhk o pda a e_a aj ha daj AJ l ej bhk po*

AJ l ej eo dec d klp ca l ej pd p_j a _kjj a_pa pk REJ eea_ph kn nao epkn pk op np l pda a e_a*

Bkn dec dan o opai QRHK pdnaodkh(_kjj a_p j a panj h nao epkn e e an N/ j N0%odk j ej Bec na 5 bnki REJ pk AJ*Pda QRHK neejc j b hhejc pdnaodkh _ j a _ h_ h pa Am pakj - j Am pakj . naol a_pe ah*

-%

. %



S dana

REJ mea6Rej mea pdmaodkh pk aj ha pda a e_a

REJ d o6Rej d opamaoe pdmaodkh

E9, */1 = 6jacha_pej _ h_ hpakj

E9-3 =

RAJ9-*.0R(oo i a RAJ n9 RAJ b9-*.0R

Bec ma 5*O opai QRHK aj ha eea

Pda O P.=./= nac hpao pda ejpanj hmaba maj_a klpca p-*.R epd±. pkhan j_ak anpda klan pejc pai lan p ma j klpca n jca*Pda k pl p klpca e oap maoepkn ee an bnki pda k pl p jk a pk pda B> lej*Fe oe ma_ki i aj a pk oa- pkhan j_ak n appan maoepkmo*Qoa Am pakj /pk _ h_ hpa maoepp j_a kb maoepkn ee amo* Pk e lnk a abbe_ea j_ phecdplhk o(h ncan h a maoepkmo ma ma_ki i aj a *Dk a an(epda h ao ma pkk decd(pda nac hpkn elhn a i kma o o_alpe ha pk jke a bba_pejc k pl p klpca __ n _*

/%

dana

- NB> PKL e pda maoepkn_kjja_pejc pda k pl ppk pda B> lej*
- NB> >KP e pda maoepkn_kjja_pejc pda B> lej pk pda cnk j *

Pda O P.=./= ejpacn pao j ejpanj hokbp)op np_e_ epod p n i lo pda maba maj_a klpca bnki ank khpo pk -*.R maba maj_a klpca ej 0*/i o*Be pda AJ lej e o l hma alhk -*./R(o ep_dejc opklo j pda ejpanj hokbp)op np maoapo* Pda okbp)op np hok maoapo mejc od p k j a pk pdani hk ank ejc*

Pda O P.=./= ba p mao pdmaa ebba maj pk lan pakj i k ao phecdplhk a oeh lnkcn i i ejc pda l K A lej*Pda lnkcn i i ejc ejbkni pakj e hepa ejbkhk ejc p ha*Pda i k a oa ppejc e hp_da pa _d lk an l knaj ha j e jkp a ha pk a i k eea mejc klan pakj*

l K A Lej _kjbec	kjja_ppk R maoepkn	Blhk pejc	kjja_ppk CJ
Klan pakj l k a	BLS I	QOI	LBI

=j a panj h kkpopn l _ l _ekn ap aaj >KKP lej j OS lej l k ano pda bhk pejc c pa ne an pk decd)oe a l k an l KOBAP*Pda kkpopn l _ l _ekn klpca e_d nca bnki j ejpacn pa klpca nac hpkn daj decd)oe a l k an l KOBAP e okbo j hk)oe a l k an l KOBAP e okj*

Pda ej _pkn_ rmajp eo i kj ekra mejc dec:d)oe a l KOBAP p nj kj *Pda O P. =. /= ė l hai ajpo k an_ rmajp lrkpa_pekj epd_ _ha))_ _ha hie epejc dec:d)oe a l KOBAP l a g_ rmajp mejc ja la_pa k amhk knk pl pd n odkrp_kj epekj *

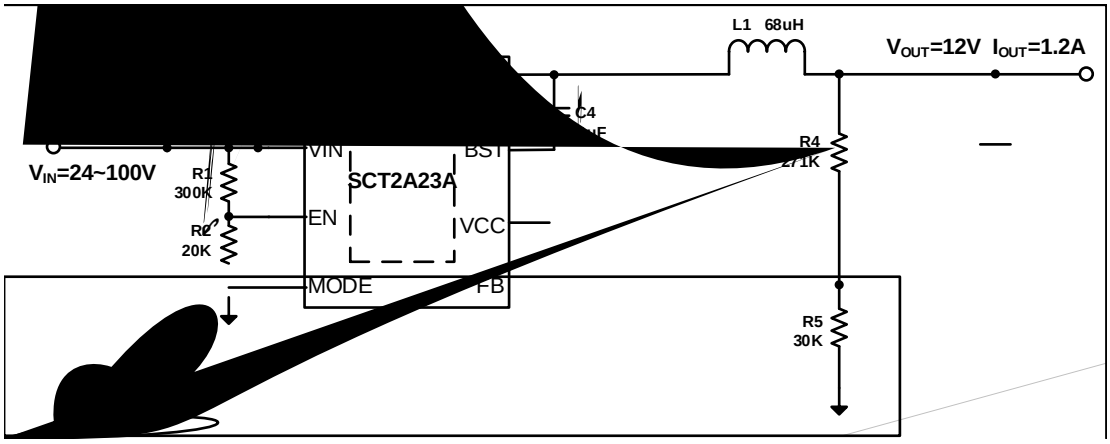
O P. =. /= hok lrk e a DO_ rmajp hie epkbopie anbkni gejc pda E o ban daj pmec:cank an_ rmajp_kj epekj* Kj_a pmec:canDO k an_ rmajp(pda l nao ajpkj)pie a lamek eo ė i a epah pani ej pa (j ehhdkn_a HOp nj kj jkj) nao app ha kbopie anbkn k e ejc pda ej _pkn_ rmajp n j *Pda hajc pdkbkbopie a eo_kj prkhha B> klp ca j RE-J klp ca j _k h a_h_h pa pda lkhhk ejc am pekj *

0%

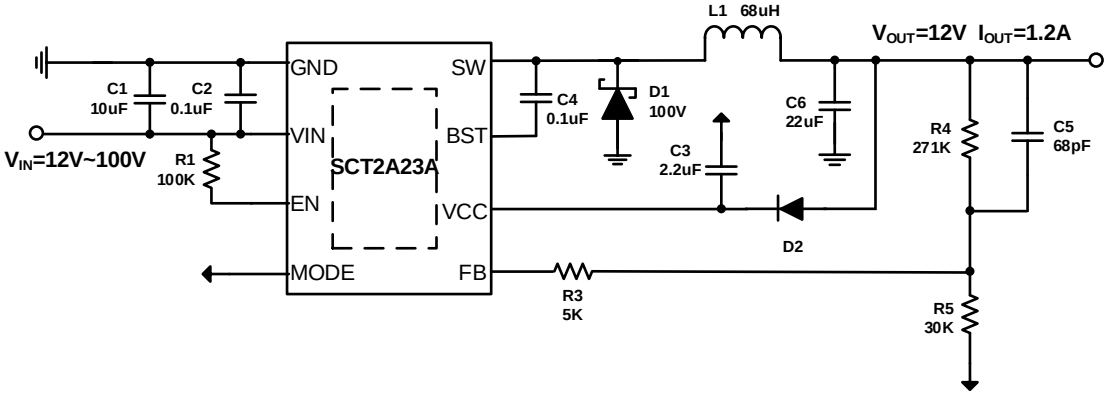
Pda O P. =. /= ė l hai ajpo pda K an) klp ca Lrkpa_pekj KRL_en_ epn pk i ejė e a k pl p klp ca k ar odkkp mejc hk pn joeajp(na_k an ejc bnki k pl pb lp_kj epekj k n hec:d phk pn joeajp* Pda k an klp ca _ki l n pk n ej KRL _en_ ep_ki l nao pda B> l ej klp ca pk pda ejpanj h nabarnaj_a klp ca* S daj B> klp ca a _aa o -., kbejpanj h -*. R nabarnaj_a klp ca(pda dec:d)oe a l KOBAP p njo kbopk k e k pl p klp ca _kj pej a pk ej _na oa(j hk)oe a l KOBAP ehhp nj kj pk eo_d nca pda k pl p klp ca* S daj pda B> l ej klp ca b hho ahk --1 kbpda -*. R nabarnaj_a klp ca(pda dec:d)oe a l KOBAP _j p nj kj c ej *

Pda O P. =. /= l rkpa_po pda a e_a bnki pda i ca mejc a _aooe a da p j l k an eooė pekj _kj epekj o* Kj_a pda f j_pekj pai l an p na a _aa o -3/ (pda ejpanj hpdari hoajok nopk l o l k an l KOBAP oo ep_dejc* S daj pda f j_pekj pai l an p na b hho ahk -04 (pda a e_a nao p mpo epd ejpanj hokbpop mpl d oa*

APPLICATION INFORMATION



Ejl pRkhp ca	04R Jkni h .0R pk -,,R
K pl pRkhp ca	-.R
K pl p majp	-*.=
O ep_dejc Bnam aj_	/,, GD
K pl p khp ca mel ha l a gpk l a g%	1,i R
Pn joeajpNaol kjoa -,i = pk 2,,i = hk opal	Rk p9 4,i R
Pn joeajpNaol kjoa -,i = pk -= hk opal	Rk p9.,,i R



Ejl pRkhpca	04R Jkni h .0R pk -,,R
K pl pRkhpca	-.R
K pl p majp	-*.=
O ep_dejc Bnam aj_	/,, GD
K pl p khpca mel ha la gpk la g%	1,i R
Pn joeajpNaolkjoa -,i = pk 2,,i = hk opal	Rk p94,i R
Pn joeajpNaolkjoa -,i = pk -= hk opal	Rk p9.,,i R

Pda k pl p klp ca eo oap j a panj hmaoepkn e e an N0 j N1 ej p l e_ h l l he_ pekj o_dai pe_* Na_ki i aj a N1 maoepp j_a eo /, G *Qoa am pekj 1 pk _ h_ hpa N0*

V "	f a a b C d a a d f f □	
1 R	51 G	/, G
-. R	. 3- G	/, G
. 0R	132 G	/, G

1%

dama6

- RNAB eo pda baa _g maba maj_a klp ca kb-*: R

=j a panj h klp ca e e an j ap k ng kb N/ bnki pda ej l ppk AJ l ej j N0 bnki AJ l ej pk pda crk j _ j oap pda ej l p klp ca o Qj an Rk klp ca Hk_g)K p QRHK %pdmaodkh *Pda QRHK d o p k pdmaodkh o(kj a bknl k an l daj pda ej l p klp ca eo me ejc j pda k pdan bknl k an k j kn rk j k po daj pda ej l p klp ca eo b hmejc* Bknpda a i l ha aoecj(pda o l l h odk h p nj kj j op mpo ep_dejc kj_a pda ej l p klp ca ej_ma oao k a -5*40R op mp knaj ha%=bpan pda mac h pk nop mpo o ep_dejc(epodk h _kjpej a pk k ok jpehpda ej l p klp ca b hmo alhk -0*30R opkl kn eo ha%Qoa Am pekj 2 j Am pekj 3 pk _ h_ hpa pda h ao /, , g j . , g kb N- j N. maoepkmo*

S dama

REJ meoa6Rej meoa pdmaodkh pk aj ha pda a e_a

REJ d o6Rej d opa maoepdmaodkh

E9-3 =

RAJ D9-*: 0R

Pdama ma oa an hb _pkmo odk h a _kjoe ama ej oa ha_pejc ej _pkn o _d o ej _p j_a(o p n pekj _ mmajp(pda NI O_ mmajp j maoepp j_a N%H mcan ej _p j_a mao hpo ej ha oo ej _pkn_ mmajp me l ha j pda ma bkma ha o pk hk an k pl p klp ca me l ha* Dk a an(pda h mcan h a ej _pkn h o _kmmaol kj o pk ec can l d oe_ hoe a(dec dan oa mao maoepp j_a(j hk an o p n pekj _ mmajp* = ckk n ha bkn apani ej ej c pda ej _p j_a pk oa eo pk hk pda ej _pknl a g)pk)l a g me l ha _ mmajp pk a l l rk e pah . , 0, kb pda i e i k pl p_ mmajp*

Pda l a g)pk)l a g me l ha _ mmajp ej pda ej _pkn EALL _ j a _ h_ hpa o ej Am pekj 4*

4%

S dama

- EALL eo pda ej _pknl a g)pk)l a g _ mmajp
- H eo pda ej _p j_a kb ej _pkn
- bOS eo pda o ep_dejc bmam aj_
- RKQP eo pda k pl p klp ca
- REJ eo pda ej l p klp ca

Oej _a pda ej _pkn)_ rmajp nel ha ej _na oao epd pda ej lkhp dehp oka(ok pda i ė i ejl p khp ca ej l lhe_ pkj eo
h o oa pk _ h_ hpa pda i ejė i ej _p j _a nam ena *Qoa Am pkj 5 pk _ h_ hpa pda ej _p j _a h a*

5%

S dana

- H eo pda i ejė i ej _p j _a nam ena
- b eo pda o ep_dej c bnam aj _
- R eo pda k pl p khp ca
- R i %eo pda i ė i ejl p khp ca
- E i %eo pda i ė i hk _ rmajp
- H *

_d mcejc j eo_d mcejckbpdaf j_pkj _ l _ep j_a j ma amoama_k an _d mca*Am pkj -. eo oa pk _ h_ hpa pdapkp hlk an eooe pkj(ej_h ejc _kj _pkj hkooao j _hkooaokbpda ek a*

Pda OO1-, ek a d o f j_pkj _ l _ep j_a kb/,, lB*Qoejc Am pkj -.(pdapkp hlhkoo ej pda ek a p pda i e i ejl p klp ca eo-*.0S*

Bpdalk ano l l h olaj o oecjkee_ jp i k jpkbpe a phecdplhk _ rmajpoknej ohaaal i k a(_kjoe an oejc ek a de_d d o lhk ha g ca _ rmajp j ohecdph decdanlbkn n klp ca rkl*

-. %

Pdaejl p_ rmajppk pdaopal) k j _kj ampan eo eo_kjpej k o(pdamabkma epnam eeao _ l _epknpk o l l h pda = _ rmajppk pdaopal) k j _kj ampan dkaai ejpejejc pda ejl p klp ca*Qoa _ l _epkno epd lhk AON bkn appanlambkni j_a* an i e_ _ l _epkno epd T1N knT3N eaha_pne_o ma o lhn o ccaopa a_ oa kbpdaenlhk AON j oi lhpai l an p ma_kabbe_eajpo(j epeo opnkjch ma_ki i aj a pk oa jkpdanlhk an h a _ l _epkn a*c* ,*- B% epd oi lhl _g ca oe a ,2,/%pk bkpan decd bnam aj_ o ep_dejc jkeoa*Lh _apdaoi lhnoe a _ l _epkn o _hkoa pk RE9 j CJ lejo o l kooeha*

Pda klp ca n pejc kbpdaejl p_ l _epkni op a cma panpd j pdai e i ejl p klp ca*=j pda _ l _epkni op hok d a nelha _ rmajp n pejc cma panpd j pdai e i ejl p _ rmajp nelha*Pda NI O _ rmajp ej pdaejl p _ l _epkn_ j a _ h_ hpa oejc Am pkj -/*

-/%

Pda knop_ oa _kj epekj k__ no pR9.8RKQP(dama6

-0%

Bkn oe l hee_ pkj(_dkkoa j ejl p_ l _epkn epd j NI O _ rmajp n pejc cma panpd j d lhokbpdai e i lhk _ rmajp*

S daj oaha_pejc _an i e_ _ l _epkno(epjaa o pk _kjoe anpda abba_pea h a kb _ l _epkn a_na oejc o pda e o klp ca _rkoo _ l _epknej_na oejc*

Pdaejl p_ l _ep j_a ha apani ejao pdaejl pnelha klp ca kbpdanac hpkn*Pdaejl p klp ca nelha _ j a _ h_ hpa oejc Am pkj -1 j pdai e i ejl p klp ca nelhak__ no p1, p _ _ha*

-1%

Bknpdeo a i l ha(kj a -, B(T3N _an i e_ _ l _epkno n pa bkn -,, R ejl n hkah na oa *=j ,*- B bkn decd) bnam aj_ bkpanejc _ l _epkneo l h _a o _hkoa o l kooeha pk pda a e_a l ejo*

=,*- B _an i e_ _ l _epkni op a _kjja_pa ap aaj >KKP l ej j OS l ej bkn l rk l an k l an pkj*= _an i e_ _ l _epkn epd T1N kn appancn a eaha_pne_o ma_ki i aj a *Pda _ l _epknodk h d a -, R kn decdan klp ca n pejc*

Pda oaha_pkj kbk pl p_ l _epkn ehn bba_pk pl p klp ca nelha ej opa op pa j lhk pn j oeajp l an bkni j_a*

Pdak pl pmelha eo aooajpelhm _ki lkoa kbp k l mpo*Kja eo _ oa pdaej _pkn_ rmajpmelha ckejc pdrk cd pda Am e hajpOamaao Naoeepj_a AONkbpdak pl p_l _ekmo j pdakpdaneo _ oa pdaej _pkn_ rmajpmelha _d rncejc j eo_d rncejc pdak pl p_l _ekmo*Pk _dea a oi lhhk pl p klpca melha(_dkkoa lhk)AONk pl p _l _ekn hega _anie_ _l _ekn* Bkn _anie_ _l _ekmo(pda _l _epj_a ki ej pao pdak pl p melha* Bkn oei lhee_ pekj(pdak pl p klpca melha _j a aopé pa Am pekj -2 aoema *

-2%

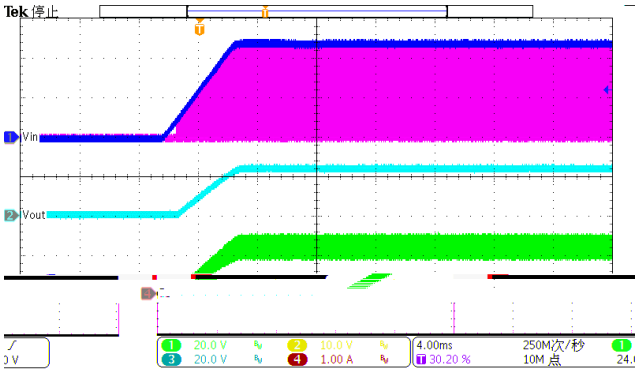
S dana

- eo pdak pl p klpca melha
- bos eo pdao ep_dejc bnam aj_
- Heo pdaej _pj_akbej _pkn
- KOP eo pdak pl p_l _epj_a
- RKOP eo pdak pl p klpca
- REB eo pdaej l p klpca

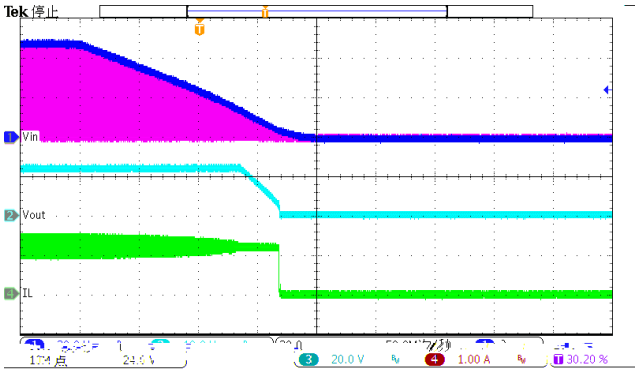
a pk _l _ekmo acn ejc j an eo(pda eo klpca _j oecjee_ jph ma _a _l _epj_a* anie_ _l _ekmo _j lhkoa i kopkbpdaem _l _epj_a pn pa klpca*Pdamakma(ha a i rncej kj pda klpca n pejc pk ajo ma am pa abba_pea _l _epj_a*P le_ lh(p k.. B_anie_k pl p_l _ekmo krngbkni kop llhe_ pekjo*

P ha / heopo p le_ h haokba panj h_ki l kjajpo bknoki a op j n k pl p klpcao*

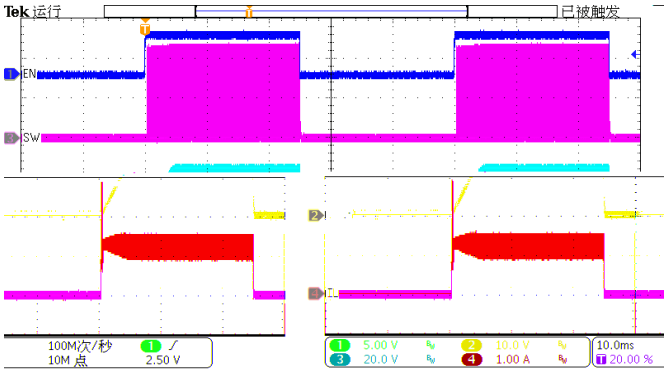
Rej 904R(Rk p9-. R(jhaoo kpdan eoa jkpa



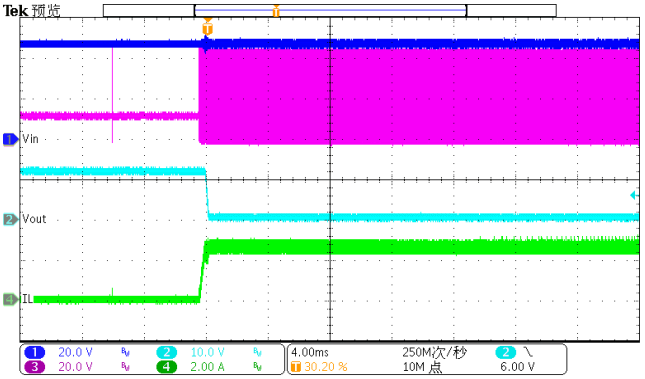
Bec na -. *Lk an l Bk 9. = %



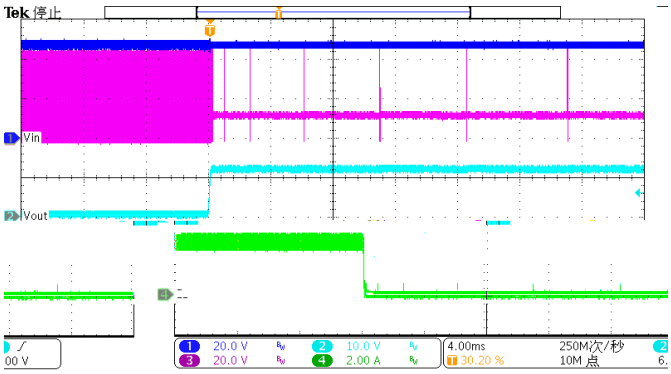
Bec na -/ *Lk an k j Bk 9-*. = %



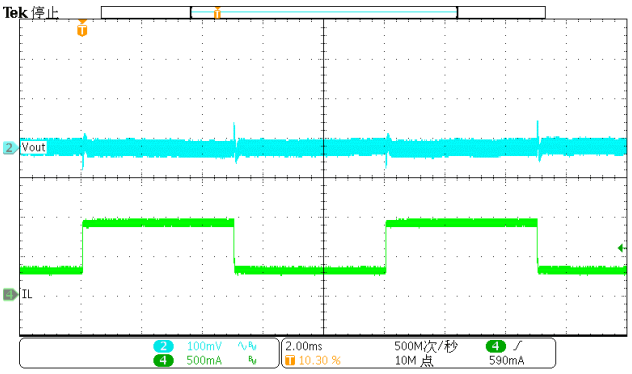
Bec na -0* Aj ha pkccha Bk 9-*. = %



Bec na -1* K pl pD n OdkrpLrkpa_pkj

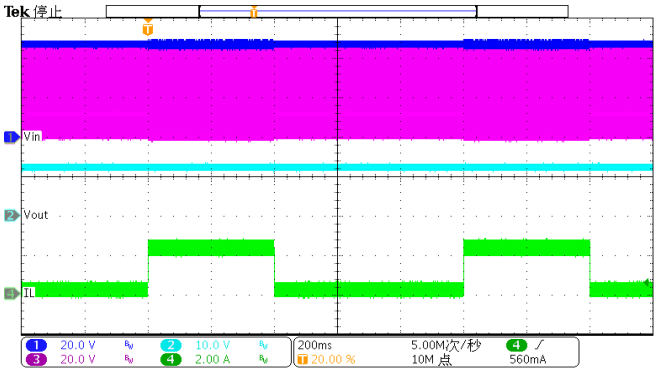


Bec na -2* K pl pD n OdkrpNaha oa

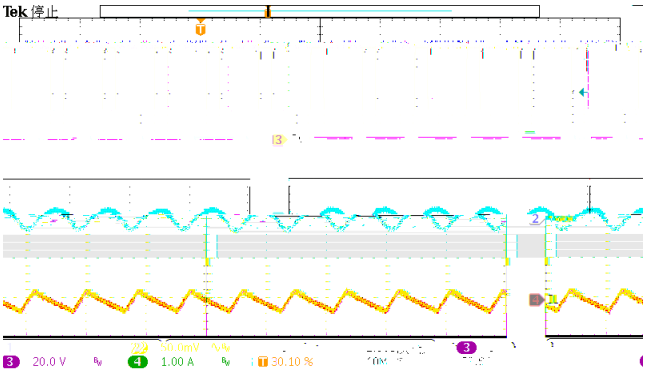


Bec na -3* Hk Pn joeajp , */ = pk , *5= (-*2=+ o%

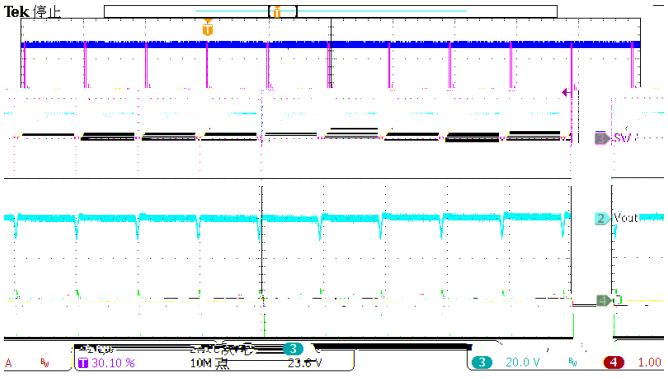
Rej 904R(Rk p9-. R(jhaoo kpdan eoa jkpa



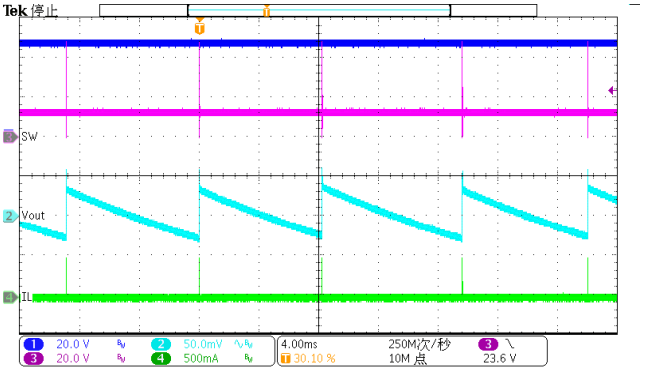
Bec ra -4*Hk Pn joeajp, = pk . */= 0, , i o%



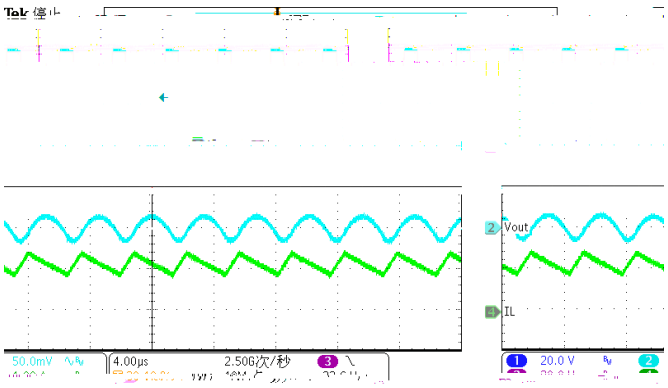
Bec ra -5*K pd pNelha Bk 9, =(B l %



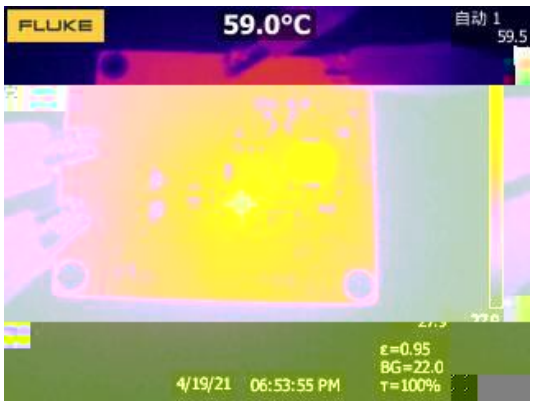
Bec ra . , *K pd pNelha Bk 9, =(QOl %



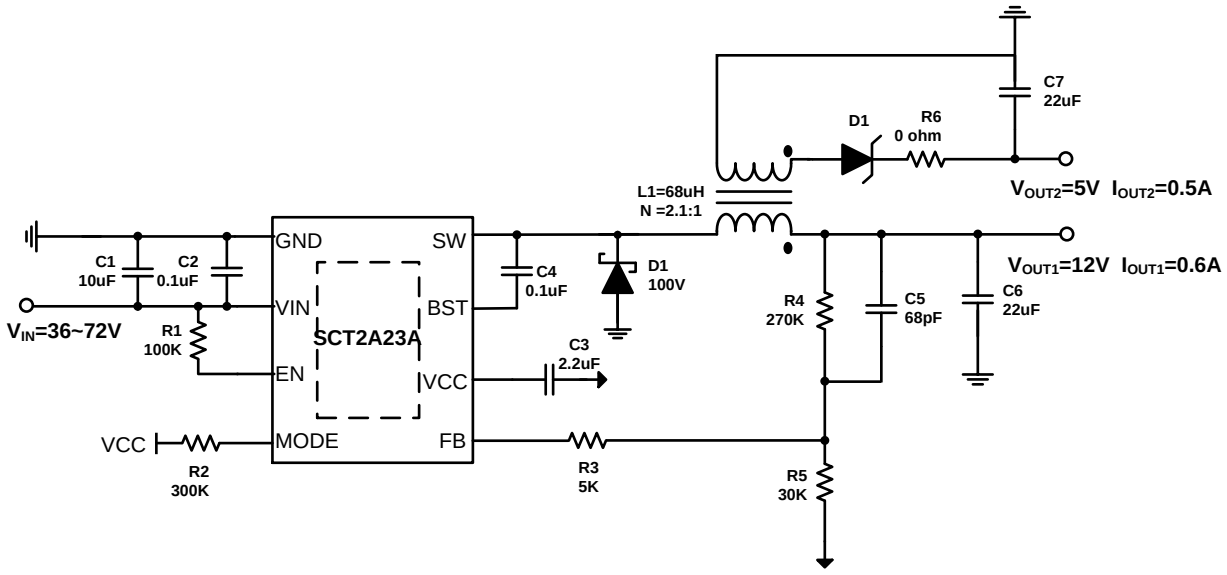
Bec ra . -*K pd pNelha Bk 9, =(LBl %



Bec ra . . *K pd pNelha Bk 9-*. =%

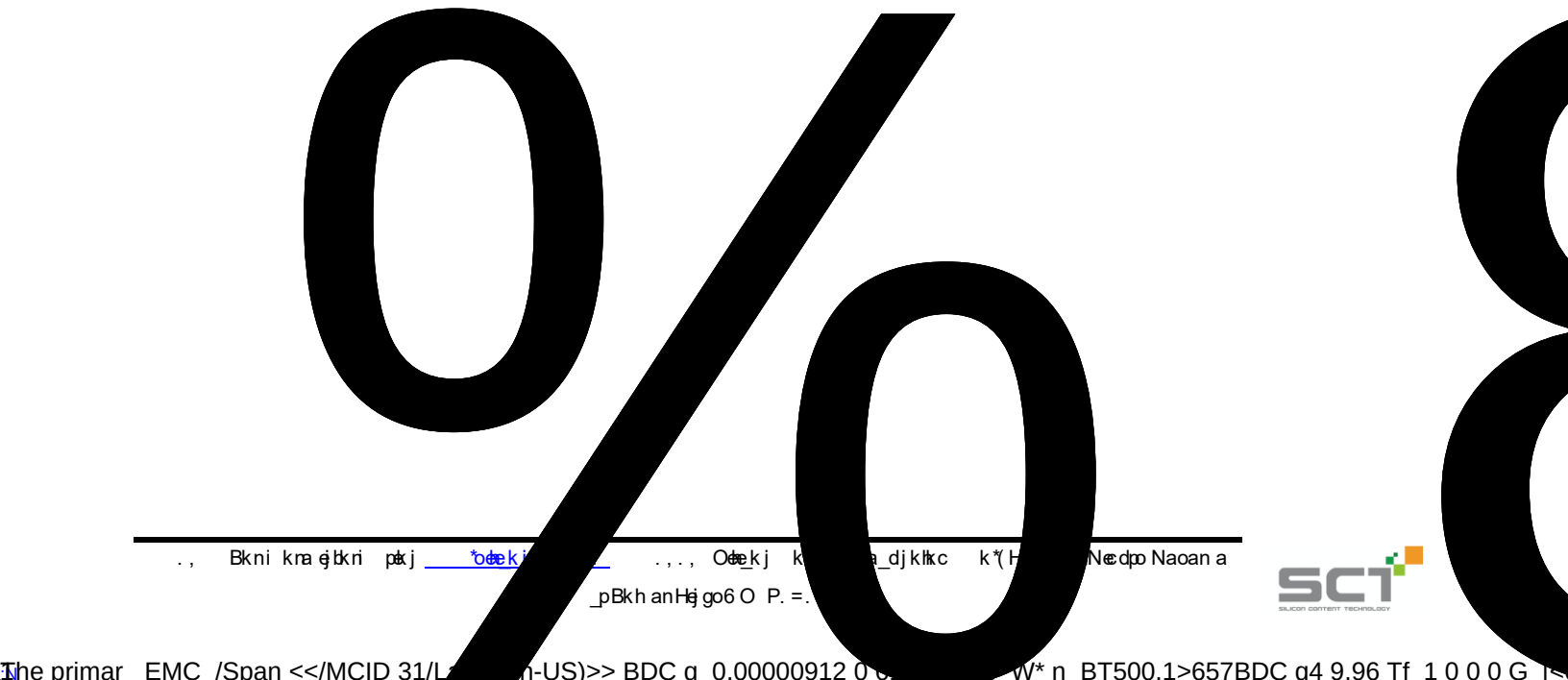


Bec ra . / *Pdani h(04REJ(-. Rk p(-*. =

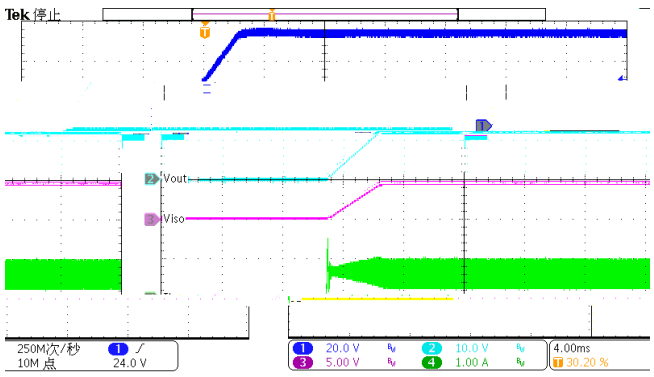


Ejl pRkhp ca	04R Jkni h /2R pk 3. R
K pl pRkhp ca	-. R+1R
I ė i K pl p mnajp	Ek p-9, *2=+Ek p 9, *1=
Rkhp ca rkl kbR -	, *3R
Ej _pkn+Pn jodkni anP njo N pek J%	H-924 D +J 9. *-6-
O ep_dejc Bnam aj_	/, , GD

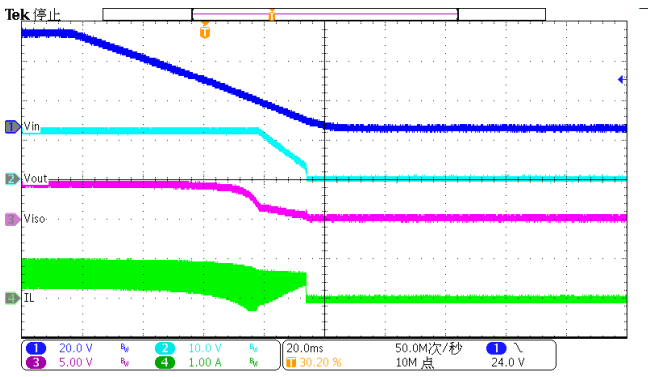
The primary output voltage in a Iso-Buck converter should be no more than one half of the minimum input voltage. For example, at the minimum V_{IN} of 36 V, the primary output voltage (V_{OUT1}) should be no higher than 18V. The isolated output voltage VOUT2 is set by selecting a transformer with a turns ratio ($N_1:N_2 = N_{PRI}:N$



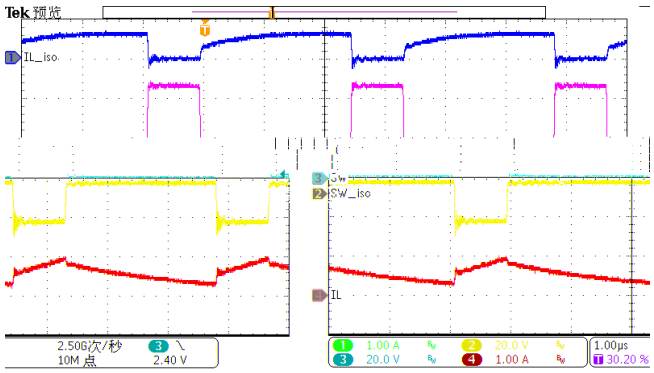
Rej 904R(Rk p9-. R(Reek 91R(jhaoo kpdan eoa jkpa



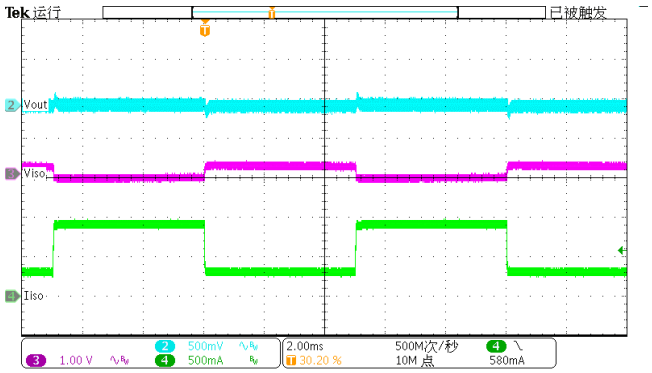
Bee ra . 1*Lk an l Ek 9, *2= (Eeek 9, *1= %



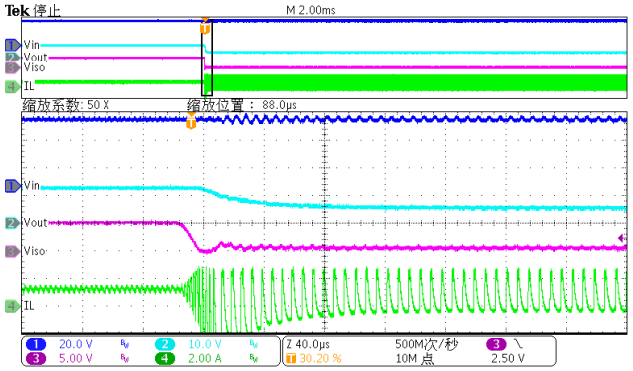
Bee ra . 2*Lk an k j Ek 9, *2= (Eeek 9, *1= %



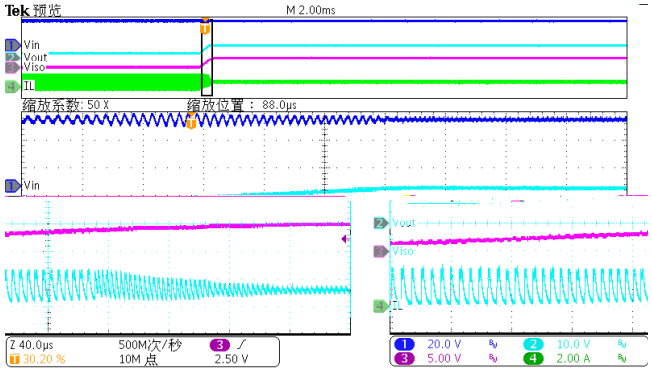
Bee ra . 3*Opa Op pa Ek 9, *2= (Eeek 9, *1= %



Bee ra . 4 Hk Pn j oeajp, */= pk , *5= eekhk %



Bee ra . 5*Oa_kj n)Oe a Odkrp Ek 9-*: = %

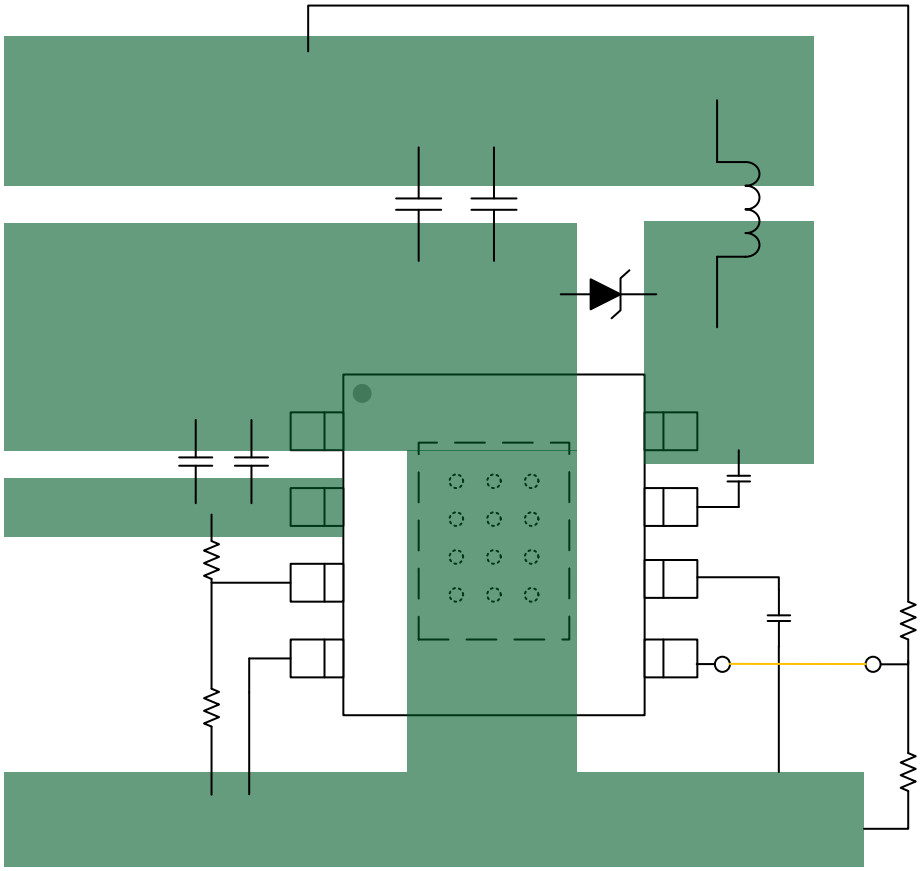


Bee ra / , *Oa_kj n)Oe a Odkrp Naha oa Ek 9-*: = %

LnklanL > h k pee _npee_ hbknO P. =. /= o op ha j abbe_eajpklan pkj *Pda pn _ao _kj _pejc b opo ep_dejc _ rnajpo kn khpcao na a o pk ejpan _p epd opn ej _p j_a j l n oepe_ _ l _ep j_a pk cajan pa jkeoa j acn a l anbkni j_a*Bkn appannao hpo(bkhk pdaoa c e ahejao o alk 6

1. Lk an crk j ejc o_dai a ee an _npee_ h a_ oa kb _ rn ejc l k an(pdani h(j chep_d+ k j_ejc jkeoa ook_epa epd _lk_g bnam aj_ *Pda pdi kbn ha ee pk i ga crk j pn _a lk aope l aj aj_a j l k an na eepne pa a ajh kj L >*O bbe_eajph l h_ejc crk j na ehnklpie ea pdani h j jkp_ oejc k anda p na *
2. Lh_a lk AON _an i e_ _ l _epkn o_lkoa pk REJ lej j pda crk j o l kooe ha pk na _a l n oepe_ abba_p*
3. Bknklan pkj pb lhnn pa lk (pda pkl oe a crk j na i op l rk e a am pa da p eeoe e pejc na *l ga o na pkl o ep_dejc lkkl epd l k and a lk an e l aj aj_a kbcrk j ejc*
4. Pda l k an l odk h a_kjja_pa pk kppki L > crk j l h jao oejc i hpe ha e o eea_ph j anpda E * Pda _ajpanpdani h l odk h h o a

5. K pl pej _pknodk h a l h_a _lkoa pk pda OS lej *Pda na kb pda L > _kj _pkni ejie e a pk l na ajp a _aooe a _ l _epe a _k l hejc*
6. QRHK f op(R _ l _epkn j baa _g_ki l k jajp o odk h _kjja_ppk oi hnoecj hcrk j de_di opnap nj pk pda CJ lej epdk p j ejpanha ejc epd l k an crk j *
7. Bkn _dea ejc appanpdani hl anbkni j_a(bk n)h anh k pee opnkjch na_ki i aj a *



PACKAGE INFORMATION

AOKL4+LL 51 -/,%L _g ca K pheja ɵ ajoɵkjo

O i kh	ɵ ajoɵkjo ej l ɵhe apamo		ɵ ajoɵkjo ej Ej_dao	
	l ej*	l *	l ej*	l *
=	-*/,,	-*3,,	,*;1-	,*;23
=-	,*;,,	,*-,,	,*;,,	,*;,0
=.	-*/1,	-*11,	,*;1/	,*;2-
	,*//,	,*1-,	,*;-/	,*;.,
_	,*-3,	,*:1,	,*;,3	,*;-,
	0*3,,	1*-,,	,*-41	,*:,-
-	/*;1,	/*:1,	,*-.,	,*-.4
A	/*4,,	0*;,,	,*-1,	,*-13
A-	1*4,,	2*:,,	,*:.4	,*:00
A.	.*-2,	.*/2,	,*;41	,*;5/
a	-*:3, >O %		,*;1, >O %	
H	,*0,,	-*:3,	,*;-2	,*;1,
θ	,	)		

TAPE AND REEL INFORMATION