

Wide Vin 50V Non-synchronous Boost/Flyback/SEPIC Controller

FEATURES

- Lp ~~gd~~ _ajmcqjhjaj <kkgd ajin
- < >(L, ++Lp ~~gd~~ _r ~~dc~~ ~~cc~~ Aj ~~gr~~ ~~db~~ M npon5
(qd O h k m ~~pm~~ Bm_ , 5(/+ > q , -0 >
<h dioJk m ~~ai~~ b O h k m ~~pm~~ Mib
(qd C=H N >gnd ~~ad~~ ~~aj~~ i G q gC-
(qd > H N >gnd ~~ad~~ ~~aj~~ i G q g> . =
- R d_ DkpoQj ~~gb~~ Mib 5.), Q(0+Q
- Gjr Ncpo_jri >pmi o.)p<
- Gjr Lpdn ioJk m ~~ai~~ b >pmi c5/ , 0p<
- &*(,)0 A _ f M ami Qj ~~gb~~
- <_epno g Nr ~~dc~~ ~~db~~ Aml p i t5, ++fCu q
-)-HCU
- so m gAml p i t Nti crj i d
- so m g>jhk in ~~aj~~ i
- Kp ~~gb~~ Nf ~~dk~~ ~~db~~ H j _
- Npkkjrn _ ~~aj~~ i gNjk >jhk in ~~aj~~ i
- , /h n D o m gNj ~~ax~~ (no mOth
- D o bmo _ Krjio ~~aj~~ i A ~~qm~~
(>jino ioK f(>pmi oKrjio ~~aj~~ i Ocmncj g
J q mDkpoQj ~~gb~~
(J pdkpoJ q r ~~aj~~ ~~gb~~ Krjio ~~aj~~ i
(<_epno g Pi _ r ~~aj~~ ~~gb~~ G f jpo
(O c rh gNcpo_jri Krjio ~~aj~~ i 510 >
- HNJK(, +G. h h %h h

APPLICATIONS

- H₂O + N₂ → 2H₂O
- G = d n N p k k g
- K j m g N k f m N p k k g
- = o r h K j r m _ = j j n o A g f * N K D k k g d i

DESCRIPTION

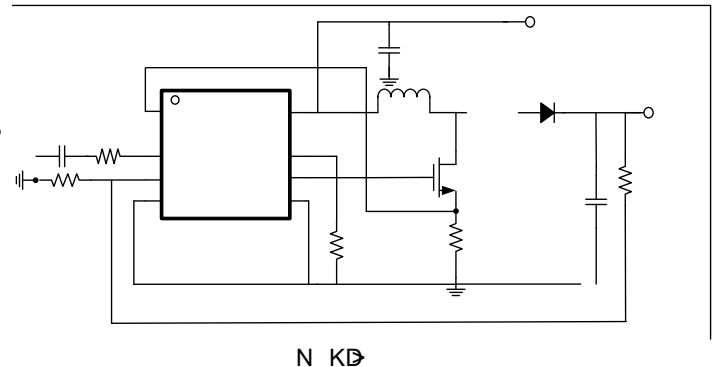
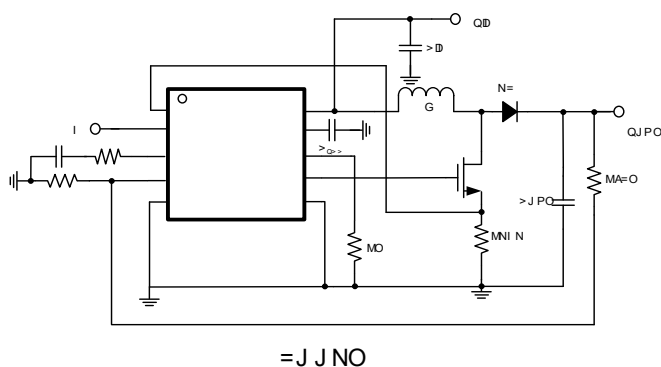
Oc N>O3, 1- / L _ qd th r d dkpd iji (
nti crnjjpn jjno jijnjgn)Oc _ qd i pn _
dl =jjnd N KD i Ag f ji q no m)

Oc nr dcd baml p i t jae N>O3,1- / L _qd i
_eno _q it q q σ i , ++fCu i _-) H Cu
t pnd b ndbg so rn gmn d q m j m t nti crji d d b
d q i so rn g g f) > pmi o h j _ ji crj gkrj qd n
npk n d m i r d d i _mi nd i o m n k j i n d _d q i
q t g (t (t g pmi o q d d b) > pmi o q d d d
_eno g d rj p b c i so rn gmn d q n)

Oc N>O3,1-/L _qd c n pnd knjo dji a qmn
np c n æ rh gncp_jri'ncj m dnpdknjo dji i_
jq rj_ b knjo dji) Kjr rn qd b ncp_jri hj_
m_p n æ qj gnpkk_ pmi oq . 4 <) Dobmo_
pmi ongk jhk in dji nd k_ d n æ _ ndi i_
di _ _ ajmk d k_ dji n' i d m n _
pnd b nd bg mndq n)

Oc _qd m q d g d HNJK(+G. h h %h h
K f b)

TYPICAL APPLICATION



REVISION HISTORY

I J O 5K b i p h m a j n k m q d p n m q d i n h t _ d a m a j h k b i p h m d a c p m i o q m d i

M q d i ,) + 5 M g n _ q h r i o

M q d i ,) , 5 P k _ o < n j o o H s d p h M d b n

M q d i ,) - 5 > j m o _ d k j b m k c d g m j m d a J k m d i n a j i

DEVICE ORDER INFORMATION

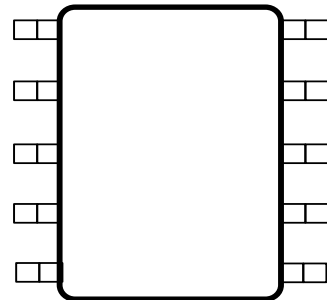
N>O3, 1- / L H M M	O k M g	/ + + +	, 1- / L	, +	HNJ K(, +G	.

ABSOLUTE MAXIMUM RATINGS

J q n j k m d b a n (d r o h k m q m p i g n n j a c m d i j o .

QD' PQGJ Z I	(+).	1-	Q
Q>>' M > q j o b	(+).	1)1	Q
Q>>' M O m i n d i o a j n 7 - + i n	(,) +	2) +	Q
D I ' > J H K' A = ' A < * N T I > * N	(+).	0)0	Q
K f n d m j p d k p o > p m i o		, -	<
E p i a j i o h k m q m -	(/ +	, 0 +	>
N q m b o h k m q m Q n o 3	(10	, 0 +	>

PIN CONFIGURATION



- N o m n n t j i _ a j n o _ p i _ m n j o o H s d p h M d b h t p n _ q d k r h i o _ h b) O c _ q d d i j o b p m i o _ q a p i a j i j p o n d j a c h M j h h i _ _ J k m d i > j i _ d i n)
- B p m i o _ t _ n d i ' i j o o n o _ d k r h _ p a j i n)
- O c D d o _ n j q n o h k m q m k r h o a j i q k r h o o a c _ q d _ p n d b j q n j _ j i _ d i n) E p i a j i o h k m q m r o s _ , 2 + > r c i j q n o h k m q m k r h o a j i d a d) > j i a d p j p n j k m d i j q a c n k d d _ h s d p h j k m d b e p i a j i o h k m q m r o m _ p o d d)

PIN FUNCTIONS

D I	,	> p m i o n i n d k p o k d) > j i i o q a c k j n d d n d j a c p m i o n i n m n d q m a n p b c n c j r a k a c)
PQGJ Z I	-	P i _ r a j o b g f j p o k r h b m h h d b k d) O c j i q n o m n o r a p k i _ n c p o _ j r i g q o i k r h b m h h _ t j i i a d b a c k d q a c n p k k q j o b a n p b c m n d q m d d n O c a k d h p n o i j o g a a j a d b) > j i i o q Q D k d d i j o p n _)
> J H K	.	J p d k p o j a c d o m g a m i n j i _ p o i m m h k d d n) > j i i o a c g j k j h k i n a j i j h k j i i o i o i a c k d i _ b r i p i _)
A =	/	D q m d b d k p o j a c m m h k d d n) > j i i o q j o b _ d d m a j h a j p d k p o j a c k d q n o j p d k p o q j o b) O c _ q d m b p g o n A = q j o b q a c d o m g m a m i q o j a ,) - 20 Q d k d g
< B I	0	< i g b b r i p i _ k d)

PIN FUNCTIONS (continued)

A<*NTI >*N	1	Nr ɔ cɔ b a n l p i t n ɔ b kɔ) Oc nr ɔ cɔ b a n l p i t ɔ k r i b m h h _ t n ɔ b g m n ɔ g m ɔ i ɔ c k k ɔ i _ < B l _) Oc ɔ m g g f i n t i c r i i ɔ _ g i s o m g g f) < c ɔ c g q g j i ɔ c k k ɔ j m . + n r ɔ m ɔ _ q d j a i _ ɔ _ q d r ɔ i _ m r .) 4 < a n h ɔ n p k k g ɔ k d ɔ)
KBI	2	Kj r m b r i p i _ k ɔ)
M	3	l (c i i g H J N A O b o _ n j p d k p ɔ) > j i i o _ ɔ n ɔ g j ɔ b o j a ɔ l (c i i g H J N A O ɔ n j p b c n c j r ɔ g r ɔ p o i k ɔ)
Q>>	4	J p d k p o j a ɔ ɔ m g Q > > m b p g g m i _ n p k k g q j ɔ b ɔ k p o j a ɔ H J N A O n j n) > j i i o m h d t k n n k ɔ m a n h ɔ c k k ɔ j K B I _)
QD	, +	Kj r m p k k g ɔ k p o k ɔ

RECOMMENDED OPERATING CONDITIONS

J q m j k m ɔ b a n (ɔ r o h k m ɔ m m i b p i g n n j a c m ɔ i j o _

Q ₀	D k p o g j ɔ b m i b	.),	0 +	Q
Q>>	Q > > q j ɔ b m i b	.),	1),	Q
Q _E	J k m ɔ b ɔ p i ɔ j i o h k m ɔ m	(/ +	, - 0	>

ESD RATINGS

Q _N	C p h i = j _ t H j _ g C = H ' k m < > (L , + + (+ -	(-	& -	f Q
	> c r b _ q d H j _ g > H ' k m < > (L , + + (+ , ,	(,	& ,	f Q

THERMAL INFORMATION

M _{E<}	E p i ɔ j i g h d i o ɔ r h g m n ɔ i _	, / -) .	> * R
M _{E> q k}	E p i ɔ j i g n g k ɔ r h g m n ɔ i _	1 /) 1	
M _{E=}	E p i ɔ j i g j m ɔ r h g m n ɔ i _	42) .	

, N > O k r i q d n M_{E<} i _ M_{E>} i p h m j i g n m a m i g n ɔ h o ɔ p i ɔ j i o h k m ɔ m n j a c _ q d n) M_{E<} i _ M_{E>} m i j o c m o n ɔ j a k f b ɔ n g j o j a h i t j a c m n o h g q g c m o n ɔ n n p c n ɔ _ n ɔ i i _ g t j p o j a c k n ɔ o _ ɔ n p ɔ j m K > = j i r c d c ɔ N > O 3 , 1 - / L ɔ h j p i o _ ' ɔ r h g k _ n ɔ ' i _ s o m g i q d i h i o g a g m) Oc K > = j m ɔ c o n d f ɔ ɔ n j g m _ g ɔ g _ n i _ ɔ r h g k _ j a c N > O 3 , 1 - / L) > c i b ɔ b ɔ _ n ɔ i j m j i ɔ p m ɔ j i j a c K > = j m c i b n ɔ ɔ ɔ d d i t j a c c o n d f i _ ɔ m ɔ m ɔ ɔ g M_{E<} i _ M_{E>})

ELECTRICAL CHARACTERISTICS

Q₈, -Q' C₈(/+ >y, -0 >' dkd gq ϕ n m o n o _ p i _ m 0 >)

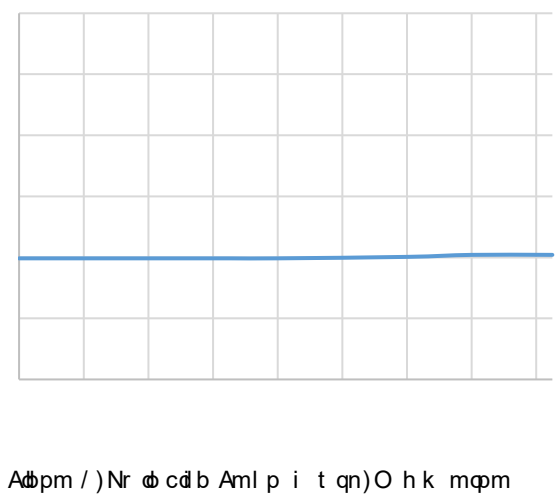
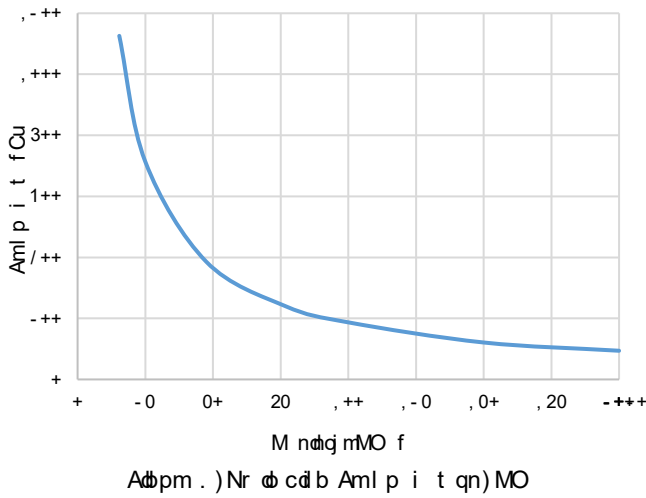
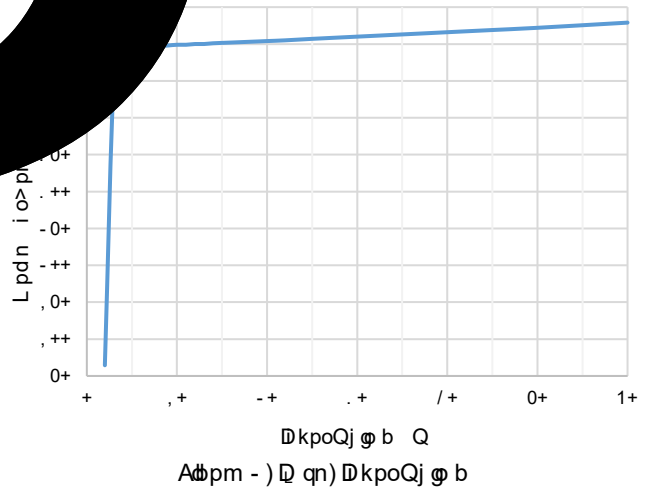
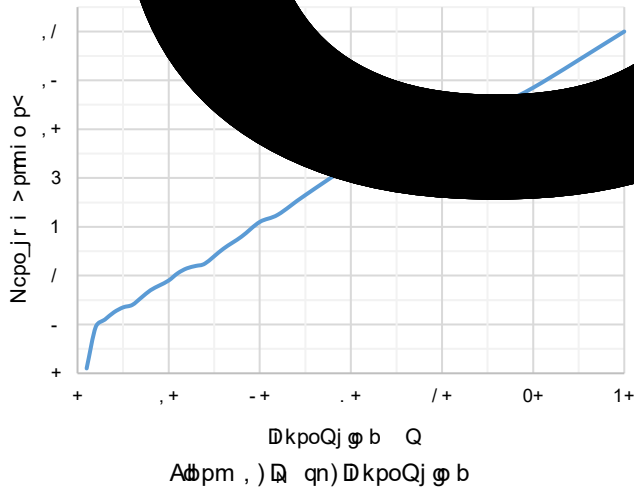
ELECTRICAL CHARACTERISTICS (continued)

Q₈, -Q' Q₈((+>y, -0>' dkd gq p n mono pi m+0>)

Q _{NN}	Nj aqno mOdh		, /	h n
A _{NR}	Nr d cāb aml p i t	M _{A<*NTI >*N 8/20f}	. / 0 / ++ / 00	fCu
NTI ZCD	Ocmncjg aj mNti cñi d āji ji A<*NTI >*N k d	Nti cñi d āji qj p b nā d b	,)-2 , y 0	Q
NTI ZGJ		Nti cñi d āji qj p b a gū b	+y03 +y13	Q
H<S	H s d h ph p d > t g	M _{A<*NTI >*N 8/20f}	30 4,	
Q _I ZH d	H d d h ph ji (ā h	A _{nr 8/ ++fCu}	-0+	i n
Q _N ZCD	Ncpo_jr i n d i g a mncjg ji A<*NTI >*N k d	Ncpo_jr i qj p b nā d b	,)-2 , y 0	Q
Q _N ZGJ		Ncpo_jr i qj p b a gū b	+y02 +y13	Q
Q _N ZGFB	A<*NTI >*N k d G f b	Q _N 80Q	,	p<
Q _{JQOC}	A= j q rā j p b a mncjg	A= nā d b	-0 30 , . 0	h Q
		Ct no mn d	. + 3+ , . +	h Q
Q _N	Oc r h gncpo_jr i a mncjg	Q _N nā d b	, 10	>
	Ct no mn d		-0	>

, Bp mio _ t _ n d i i _ i c' i j o o n o _ d k r i _ p ā j i)
- Bp mio _ t _ n d i ' i j o o n o _ d k r i _ p ā j i)
. Oc j q rā j p b k r i o ā j i d n k d d _ r d m n k o j ā a _ f q j p b) Oc d d p n ā j q rā j p b k r i o ā j i m f n
ā a _ f q j p b) Oc j q rā j p b a mncjg i g p g o _ t _ d b ā a _ f q j p b Q_{A=} ā j ā j q rā j p b
k r i o ā j i n k d d ā j i)

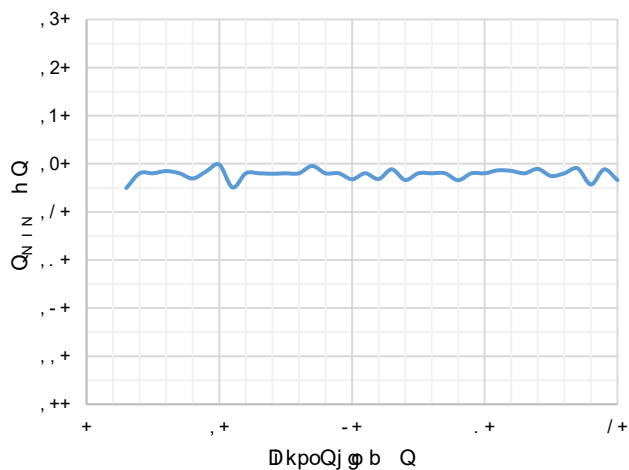
TYPICAL CHARACTERISTICS



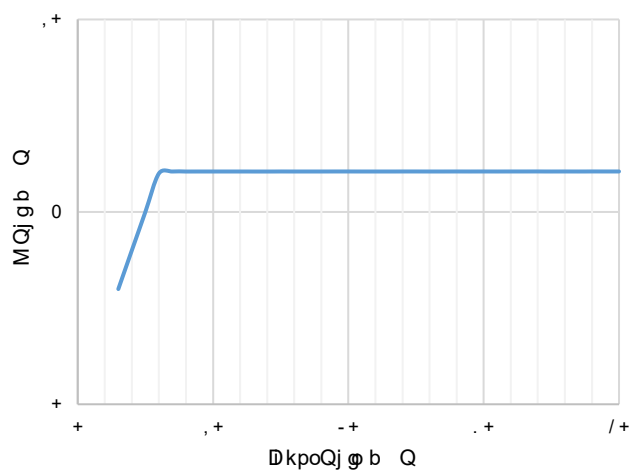
$A\phi pm 0) \text{ addi t qn) G } _ > pmi d = j j n d Q_{Po8}, -Q$

$A\phi pm 1) \text{ addi t qn) G } _ > pmi d N K D' Q_{Po8}, -Q$

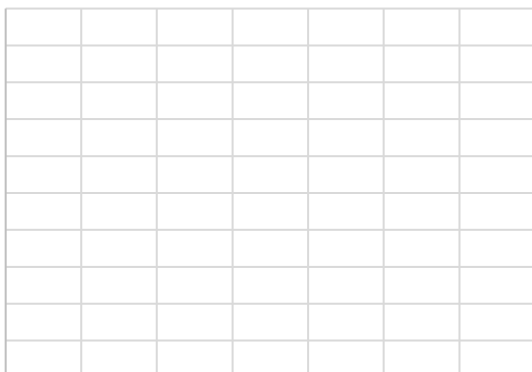
TYPICAL CHARACTERISTICS



Adpm 2) >prmi oN i n Ocmncj g qn) DkpoQj 9 b



Adpm 3) $MQj \ gb \ qn) DkpoQj \ 9 \ b$



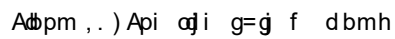
Adpm 4) > J HK Nj pm >prmi oqn) O h k m qm

Adpm , +) > J HK N d f >prmi oqn) O h k m qm

Adpm , ,) MM n d o i qn) O h k m qm

Adpm , -) Ncpo_j r i Ocmncj g Ct no mn d qn) O h k m qm

3 Ajmhm dajm dji [rrrncjioiojh](#) -+0Ndji >jioioO cijgbt >jj' Gd) <gMbcn M n m _
Krn_p oAig_mGifn5N>O3, 1- /L



OPERATION

Oc N>O3,1-/L _qd th r d d k p o m i b ' i j i (n t i c n h i j p n j j n o j i t h g m a c o p n n k f (p m i o h j _ j i t h g O c _ q d i p n _ d j j n d N K D ' i _ a g f q k j g b d n)

D d k d g k k g l a j i t h p d a c k f p m i o a c n h p b c a c s o m g H J N A O t h n i n _ a c n h p b c i s o m g n i n m n d g n) O c q j g b n h n n a c h m n d g m a _ d g a D N I N k d) O c h q j g b t h a _ d g a c k j n d d k p o j a c K R H j h k m g n) O c j p d k p o q j g b t h g j n i n _ a c n h p b c i s o m g a _ f m n d g m _ d d m i o j n h i _ a _ d g a m j m h k g d m i b a d d k p o) O c j p d k p o j a c m j m h k g d m > J H K k d t h _ _ g a c n g k j h k i n a j i m h k i _ a _ d g a i b a d d k p o j a c K R H j h k m g n) < o a n o r a j a i t n r t c d b t g ' a c j n d g j m t a c M N g o c p n d b a c n r t c g b d g f) O c h a j m n c t c n d i g j i a c M k d b o j a c s o m g H J N A O i _ a c s o m g H J N A O p r n j i) R c i a c q j g b j i a c k j n d d k p o j a c K R H j h k m g m s _ n a c i b a d d k p d a c M N g o c d m n o i _ a c s o m g H J N A O p r n j a c) O c q j g b n i n _ n h n a c n i n m n d g n b i m g j i o d n n k p r j p n i j t h n k d n) O c n k d n i a j m a c K R H j h k m g n j m n o a c M N g o c k m h p m g) O j k m q i o a c n n k d n a j h m n a d b a c g o c ' g i f (j p o t h p d d n d a c D k m q i o a c K R H j h k m g n a j h m n a d b a c g o c a j m n c j r o _ p m a j i a m a c g o c d n d) O c h _ p m a j i t h g _ a c g i f d b d o r a g i _ t h n k a d _ n h d d t h p h j i (t h d a c g s d g > c m o n d a d n n a j i) P i _ m s o m h g t h c d g _ j m i j (g _ j i _ d j i n ' a c i r h t _ g l m _ g a c j p d k p o k t j m r c i a c s o m g H J N A O d j i _ p n d b a c g i f d b d o r a g t h h j m a i r c o d _ g l m _ g a c g _) < i j q r a j g b j h k m g m d n d a c N > O 3 , 1 - / L k m q i o a c j p d k p o q j g b a j h n d b b i _ m a c n j i _ d j i n) O c j q r a j g b j h k m g m i n n a c a _ f A = k d q j g b i _ m n t a c M N g o c) O c g o c m h d n d m n o n o o p i a c j p d k p o _ t n g a c i j h d g a g)

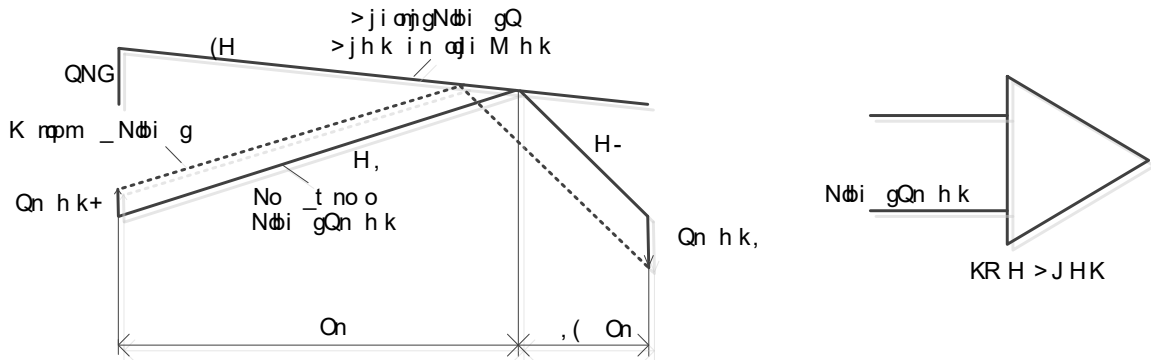
Oc N>O3,1-/L r j n f i n o K p g n f d k h j _ g a m a c m i m n a c a d d i t d g l c o g _ j i _ d j i)

Oc l p d n i o p m i o j a N > O 3 , 1 - / L t h / , 0 p < d k d g p i _ m i j (g _ j i _ d j i i _ i j n r t c d b) t h g l b a c _ q d ' a c d k d g n p k k g n c p o _ j r i p m i o j i Q D k d t h .) 4 n <)

Oc N>O3,1-/L c n j q m a j g b k n j o a j i J Q K a j m a c j p d k p o q j g b) J Q K t h n i n _ o a c a _ f k d A =) l a o i t t h a c q j g b o a c a _ f k d n n g j ,) 1 Q d k) ' J Q K t h t h b m _) J Q K r a j p n a c M k d g b j g r ' a j m d b a c k j r n H J N A O j a c) R a c a c H J N A O j a c a c j p d k p o q j g b r a j n k) O c N > O 3 , 1 - / L b d n n r t c d b b d r c i a c a _ f q j g b m c n ,) 3 Q d k))

Oc d o m g d n j a c N > O 3 , 1 - / L j h n a j h t a m a c d o m g d n q j g b b i m g m j m _ t h a j a j h a c q j g b o a c Q D k d) < o d k p o q j g b n g r m a c i 1 Q a c d o m g d n t h a c d k p o q j g b i _ o a j g b n j q 1 Q a c d o m g d n q j g b b i m g m j a c N > O 3 , 1 - / L k n j q d n a c d n) O c b o (_ n d m p k k g q j g b Q > > m l p a n n i s o m g t k n n k t j n M j h h i _ Q > > k t i t h , A ' _ j i j o k g k t i s _ d b -) A) j i j o d n a c Q > > k d t i s o m g a j g b n j p m)

Oc N>O3,1-/L p n n p m i o h j _ j i t h g n c h) O c h d _ q i o b n j a p m i o h j _ j i t h g m d c m i o t g (t (t g p m i o g l t a j m a c n r t c i _ n d k g m j i t h g g j k c m o n d a d n) C j r q r h p m i o h j _ j i t h g c n N p (c r h j i d j n a j i r c i _ p d t g t h b m o m a c i 0 +) O j k m q i o a c N p (c r h j i d j n a j i n ' j h k i n a j i m h k t h _ _ g a c j i t h g t h i g)



Áðpm, /) Np (C rhjid Jn ðu ãi ãim 9+)0 i_>jhk in ãi M hk ð <qj d Np (C rhjid Jn ðu ãi
Oc pmi ohj_ j iijig c h n hkg n æ ð_p ðm pmi d ð i_ jhk mn æ n hkg_nði g Qn h k' ð
ðom ð b i mo_ j iijig ð Q) Oc pmi on in mn ð g rh M, ' nncjri ð Áðpm, 0 j i q mn æ n hkg_ ð
ð_p ðm pmi d ð ð æ qj ð b nði g Qn h k' æ oð krkj ð ði gð ð n p c æ o:

$$V_{DPS} = 2$$

Áðpm, / ð nno æ æ j r r c t Np (C rhjid Jn ðu ãi c k k i) Oc mn ð b i_ a ð b ngk n' H, i_ (H-
mnk ð ð' ja Qn h k m ð j krkj ð ði gð æ ð_p ðm pmi on mn ð b i_ a ð b ngk n' Hji i_ (Hj æ
mnk ð ð' R c m Hji ð æ ð_p ðm gk _pn ð b æ nr ð c ji (ð i_ (Hj æ ð æ ð_p ðm gk _pn ð b æ
nr ð c ji (ð i_ m m go_ ð H, i_ (H- t :

$$9 = RQ^2$$

$$- = - H^2$$

Aj n æ j j no ð kj g b t 5

$$9 = RQ^2 = IQ^2 \quad 7$$

$$= H^2 = 0 \quad RW \quad IQ^2 \quad 7$$

Ð Áðpm, /' nh ð ð m n ð æ ð _ pmi o pn n æ n hkg_nði gð ð m n t Qn h k+) Oc æ oja
æ ð ð _ c i b ' Qn h k, ' o æ i_ j æ æ ð n o r ð c ð b t g ð

$$\Delta_{V_{DPS}9} = -0 \frac{-}{9+} \frac{F}{F} 12 \Delta_{V_{DPS}}$$

Nj' R c i l j jhk in ãi mh k nði gð _ 'r c d c H ð u ð' æ i 5

$$\Delta_{V_{DPS}9} = -0 \frac{-}{9} 12 \Delta_{V_{DPS}} = -0 \frac{-}{9-} 12 \Delta_{V_{DPS}}$$

R c i 9 +)0' Qn h k, r ð b m o m æ i Qn h k+) Ð j æ m r j m n' æ _ ð p m i ð
_ ð r b i o Nj q r n h ð k r m ð ð i ð æ ð _ r ð p n æ _ ð p m i ð ð ð m n)

<æ m jhk in ãi mh k ð _ _ ð æ j iijig ð Qj in p m æ o æ k r m p _ nði g j i q r b n r h p n o
h ð o ð 5

$$\left| -0 \frac{-}{9+} \frac{F}{F} \right|_7,$$

Oc jhk in aji mhkc n i _ _ dom g d a N>O3,1-/L)Oc ngk jaac jhk in aji mhkc n

Oe jpkpoqj b d n o t i s o m g m n o d j m d d n M A = 0 i M A = d d k d g k k g d a j i n c h a d < h d d p h
 p m i o j a d k d g + p < a j r d b a e n p b c a f m n o d j m d d n b d n b j j p m t i i j d j q n d b O c q d
 j a M A = 0 i g p g o t l p a j i , -)

$$= \frac{\quad}{\quad} \times$$

r c m 5

Q_M A d a f m a m i q j b ' d k d g ,) 20Q

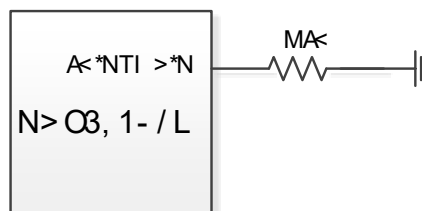
Oe n r d c d b a m p i t j a e N > O 3 , 1 - / L i e p n o o i , + + f C u i -) H C u p n d b n d b g s o m g
 m n o d j n O c d m n o d j m h p n o j i i o o i a A < * N T I > * N k d i b r i p i) l p a j i , . i p n d j
 n d h o a a m p i t e p n o m n o d j n

$$0 \Omega l = \frac{9A}{IV \Omega N 1} - 99$$

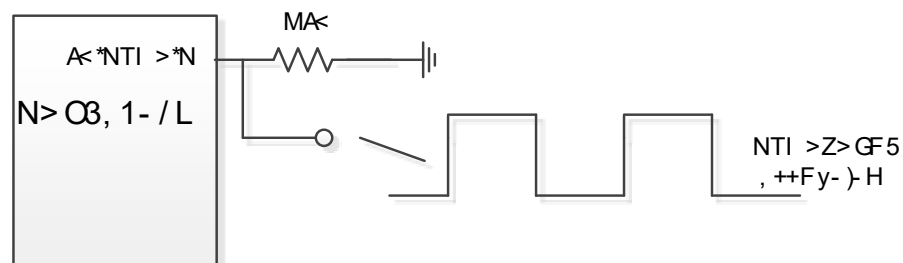
Oe N > O 3 , 1 - / L i g j n t i c r i d d j i s o m g g f) O c s o m g g f h p n o j i i o o i
 a A < * N T I > * N k d i b r i p i ' n n c j r i d A d p m , 1) O c a m p i t e p n o m n o d j m h t m h d j i i o
 r c d n t i c r i d d b n d i g a e m a m d e m d g n n j a n d i g a e n r d c d b a m p i t r d n o t a a m p i t
 e p n o m n o d j n

Oe A < * N T I > * N k d g j a i a j i n n n c p o j r i k d) d c d c n d i g 9 ,) 2Q k k m j i a A < * N T I > * N k d
 j q m + n N ' a N > O 3 , 1 - / L n g k n n r d c d b i b j n d j g r p m i o h j) O c d o g n p k k d p m i o j a e D
 m p n g .) 4 < ' d k d d p i m e n j i a j i n)

A d p m , 3 i A d p m , 4 n c j r i d k g h i o a j i j a n c p o j r i a i a j i r c i j k m d b d a m p i t e p n o h j
 i n t i c r i d d a j i h j ' m n k a d d) D a m p i t e p n o h j ' j i i a d b a A < * N T I > * N k d j b r i p i
 a m n a e g f d r p i o n d a m p i t) K p d b a d k d c d c n c p o j r i a e D) D a m p i t e p n o j m
 n t i c r i d d a j i h j ' c d c n d i g a m h j m a i . + n n c p o j r i a e D (

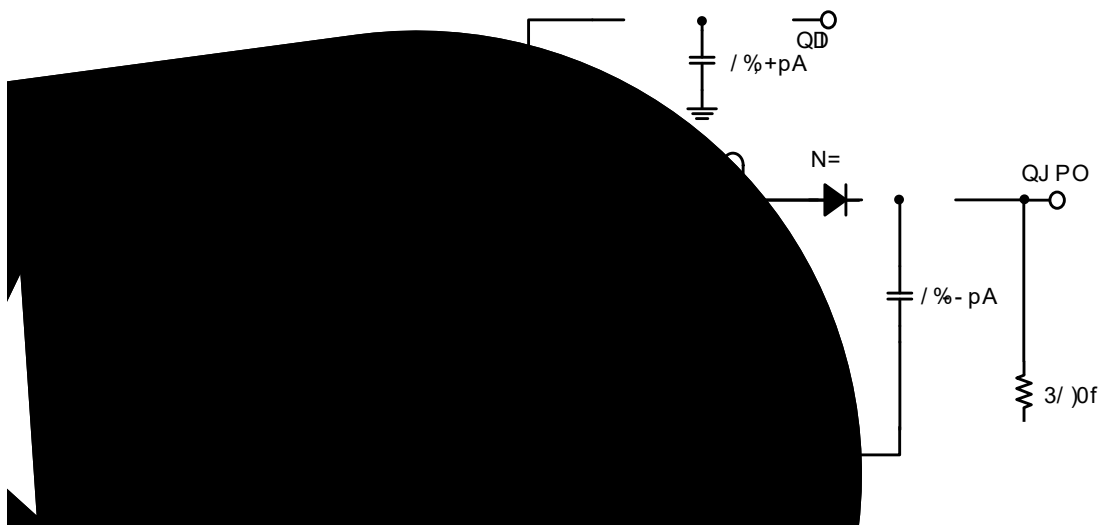


A d p m , 1) A m p i t < e p n o



A d p m , 2) A m p i t N t i

APPLICATION INFORMATION



අමතරව, ඔබගේ අවධානය යොමු කරමින්. ඔබගේ, ඔබගේ - < = ඔබගේ ඔබගේ ඔබගේ ඔබගේ ඔබගේ

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ඔබගේ ඔබගේ	ඔබගේ ඔබගේ

Oc k m̄r h i j a d p q m æ t æ k j r m p k k g n n o _ t n o o j k m a j i ' a m i n d i o c q d r h g j k n o t t ' i _ j j n o j i q n o m a d d i t) O c d p q m q u o ' > m n o i ' i _ n o m a j i p m i o d a p i n j æ a d d i t i _ æ h b i o p _ j a æ j p d k p o q j o b n k k g) G r b m d p o i q u o m p n d p q m p m i o n k k g i _ æ m a j m g _ n q g r m j p d k p o q j o b n k k g) A j m æ s _ > m n o i ' g r b m q u o d p q m t d g n c o c m a d d i t q d m p _ M H N i _ j m g n n n) C j r q r h g r b m d p q m r o c d b o i d p q m a h o r o b i m g c q b m o m n n m n o i ' æ m t j p i o m o i b æ t a d d i t _ q i o b)

D p q m q u o n i c q - + j m q i 0 + q g m i r o c i j p m i o d n) R c i æ d p q m p m i o k k r h c n n o m a j i g q g t o d p o i i _ m n - + q . 0 a n h æ q u o o + (< p m i o _ k i _ d b j i c j r æ d p q m q i _ j m _ a d n n o m a j i) R c i n g o i b i d p q m c j j n t m o _ p m i o n k d g u æ n o m a j i p m i o g r b n æ i t h k f p m i o _ n a b æ j k m a j i)

O j g p g o æ p m i o d æ r j m o n ' p n æ h d d h p h d k p o q j o b ' h s d h p h j p d k p o q j o b ' h s d h g _ p m i o i _ h d d h p h n r o c d b a n l p i t j a æ k k g u a j i ' r c o j j i n d n a b æ d p o i r o c (. + q g m i i _ g r (k j r m j i q m q i a d d i t)

A j m j j o j i q n o r h g p g o æ d p q m > p m i o n d l p a j i , 1

Ajmh qjpkpqj q b nkkq' cijn gr (NMjpkpo k qjmf mhd k qj nOtkd q'. ~/s--qA mhd jpkpo k qjmrjnr ajmhjno kkg qjin) < +), qA mhd tknn k qjmh m jhh i _ q kg _ n gn nkjndg q æ nr q cij _ C q c m k qjmq q n i pn _ q q knrq æ q _ amindio mnkj in) p q k qj m _ m q b pi _ m > dn' æ dn i n q i q m _ p k q i) > mhd k qj m i gn hjno j æ q k q i omo _ qj q b) Oc m q m' g q h r q j i æ qj q b m q b q inpm _ l p o æ q k q i) Arj h æ m l p q n _ j p k p o q j q b n k k q ' p n æ l p q i - + i _ , q q p g o æ h q d p h m l p q n æ q k q i ' > JPO)

Qđ 80Q' Qj pđ, - Q' pi gnn jđ m đ i j o _

Ađpm --)Kjr mpk đ _8-<

Ađpm -.)Kjr m_jr i đ _8-<

Ađpm - /)Jq m pmi okrj o đ i đ _80<

Ađpm - 0)Jq m pmi om j q rđ đ _80<

Ađpm - 1)No _t(no o đ _8-<

Ađpm - 2)Nti A

APPLICATION INFORMATION

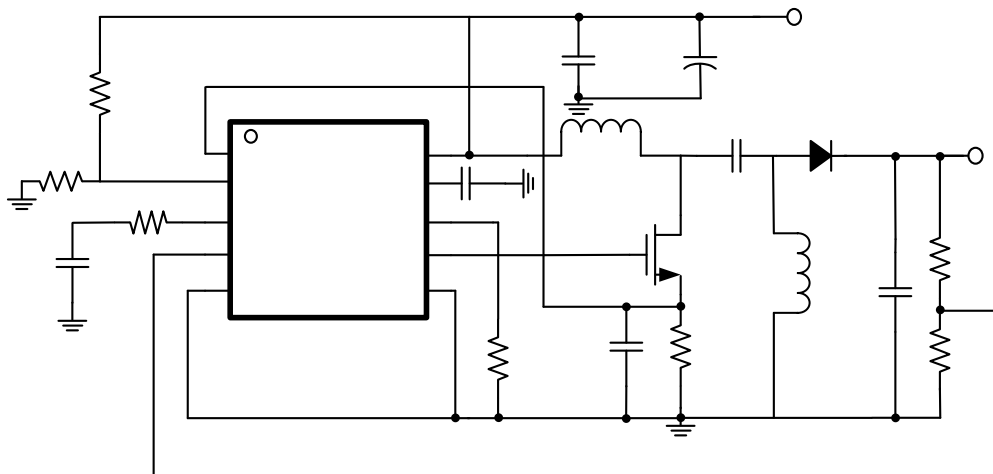


Figure 3-3: Typical MOSFET Driver Circuit

Gate Driver	- / Q1 jth g0Qj 0+Q
Gate Resistor	, - Q
Gate-Source Capacitor	- <
Gate-Drain Capacitor	/ ++ FCu
Gate-Source Inductor	20h Q Gj _8-<

< bjj_rpg ajm_ orh ddb æ d_p oi q pn th q ur æ d_p qmk f(q(k f nkkg pmio q kknjsdh o g -+ q /+ jaæ h sðph ðkpo pmio oæ h ððph ðkpoqjð b)Oc pmio onkkg ajr ðb ð d_p qm G i_G ðbð i t5

$$\Delta_9 = \times \left(\left(\times \text{---} \times \right) \left(\right. \right. \quad -2$$

$$\Delta = \times \left(\left(\times \right) \left(\right. \right. \quad -3$$

I jrh ur ing o l p gq ð ajmæ d_p qm G i_G' _ nð _ n5

$$_9 = = \left(\frac{\quad}{\Delta \times I} \times \left(\right. \right. \quad -4$$

R c m

f_{NR} thæ nr ðcðbaml p i t)

I jo æ oæ n ðmæji pmioja d_p qm ncjpg_ bm o mæ i k f pmio ajr ðb ð d_p qm' bð i t5

$$_9 = + \frac{\Delta}{\quad} = \left(\times \text{---} \times \right) \left(\right) + \text{---} 1 \left(\right. \quad . +$$

$$= + \frac{\Delta}{\quad} = \left(\times \right) \left(\right) + \text{---} 1 \left(\right. \quad . ,$$

ðG i_G mr jpi_ ð n h j m n jpkg_ d_p qmæ d_p oi ml pðn_r ð c g_p q æ hpð g ð_p æji' gpgo_ t5

$$_9 = = - \left(\frac{\quad}{\times \Delta \times I} \times \left(\right. \right. \quad . -$$

Oc ajr ðb k mh omncjpg_ of i ðq jind_ mæji ajnHJNA O5æ ji(mnðoi M_{NZJ1}'æ h ððph b o æmncjg qjð b Q_{OCZHð}'æ qogb o c rð L_b'æ mq m aminam k ði >_{MNN'} i_æ h sðph _mð q njpm qjð b Q_{LZH<S})Oc k f nr ðcðb qjð b ð i _mð q njpm ð N Kð ðbð i t5

$$= + + \left(\right. \quad . .$$

Oc i æ Q_{LZH<S} jakjr nHJNA Oncjpg_ bm o mæ i æ k f nr ðcðb qjð b)

Oc k f nr ðcðb pmio ajr ðb ænjpbæ HJNA Oðbð i t5

$$= _9 + \left(\right. \quad . /$$

Oc MHN pmio ænjpbæ HJNA Oðn gpgo_ t5

$$= \times \sqrt{\left(\begin{array}{cc} + & + \end{array} \right) \times \left(\begin{array}{cc} + & \end{array} \right)} \left(\right. \quad . 0$$

$\Delta = \frac{\times}{\times I} + \left(\right) \quad . 2$

O c k j r m Δ n k Δ j i j a c Δ Δ h p g g Δ a j m Δ q j Δ b Δ n k h p g g Δ n j p k p o p m i o N c j a f t Δ Δ n m m j h h i Δ Δ c m g j h Δ Δ Δ a c k j r m j n n)

A j m m h d k Δ j m r Δ g r (N M ' a c k f g k f q j Δ b n k k g j i j p k g i b k Δ j m m n a h o Δ t 5

$$\Delta = \frac{\times}{\times I} (\quad . 3$$

O c h s a h p h q j Δ b n j n n a c j p k g i b k Δ j m m h s a h p h Δ k p o q j Δ b) O c q j Δ b m a i b j a c j p k g i b k Δ j m r p n o b m o n a c i Δ

O c M H N p m i o j a j p k g i b k Δ j m m b a i t 5

$$= \times \sqrt{\frac{+}{\quad}} (\quad . 4$$

O c m Δ g r b M H N p m i o a c n j p b c j p k g i b k Δ j m m g a d j j p k p o k j r n i n p m a c j p k g i b k Δ j m i r a c n o i Δ Δ r Δ b j j Δ c o b i m a j i g c q k n i k m a c r h g k n a j r h i)

O c N K Δ c n i Δ p g m o d k p o n d a c p n a c Δ k p o p m i o a h j i a i p j p n i Δ a i b p g n) O c M H N p m i o a g r Δ b a c n j p b c a c Δ k p o k Δ j m m b a i t 5

$$= \frac{\Delta}{\sqrt{9}} (\quad / +$$

N d Δ k p o p m i o n k k g Δ m g a d j g r ' a c k Δ i r j p g i j o g j n a d g R c a d , + + A d j o g j m o d c m q Δ Δ n a j i b g m j h h i Δ Δ j m m j k n i q d n o g Δ k p o n p k k g)

N d Δ j m j j j n o j i q m a c N K Δ j p k p o k Δ j m p a m g r b p m i o n k k g) O c k Δ i h p n o i j p b c g k n i q d a c g Δ p m i o O c h s a h p h q j Δ b n k k g Δ a c j p k p o k Δ j m m 5

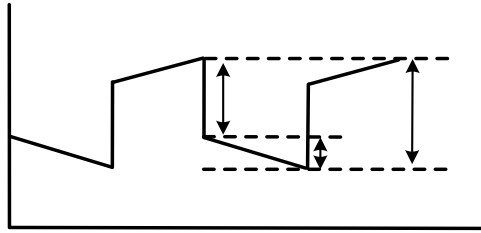
$$\Delta = \frac{\times}{\times I} + \times \left(\begin{matrix} 9 \\ + \end{matrix} \right) (\quad / ,$$

Δ n n p h Δ b m h d k Δ j m m p n Δ c m i Δ N M i Δ i j m Δ ' a c j p k p o k Δ j m m b a i t 5

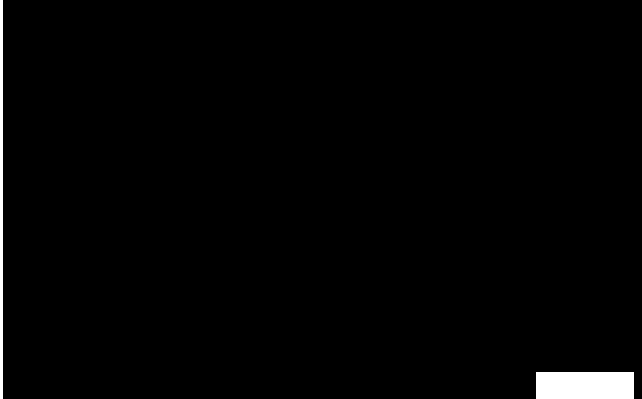
$$\geq \frac{\times}{\Delta \times I} (\quad / -$$

O c j p k p o k Δ j m r p n o c q i i j p b c M H N p m i o m a i b g c i g a c h s a h p h M H N p m i o d a c j p k p o k Δ j m g p g o Δ t 5

$$= \times \sqrt{\frac{\quad}{9 -}} (\quad / .$$



Абpm - 4) J pdkpoQj 9 b Mkkkg



tek 停止

SD

SW

Vout

10.0ms

100M次/秒

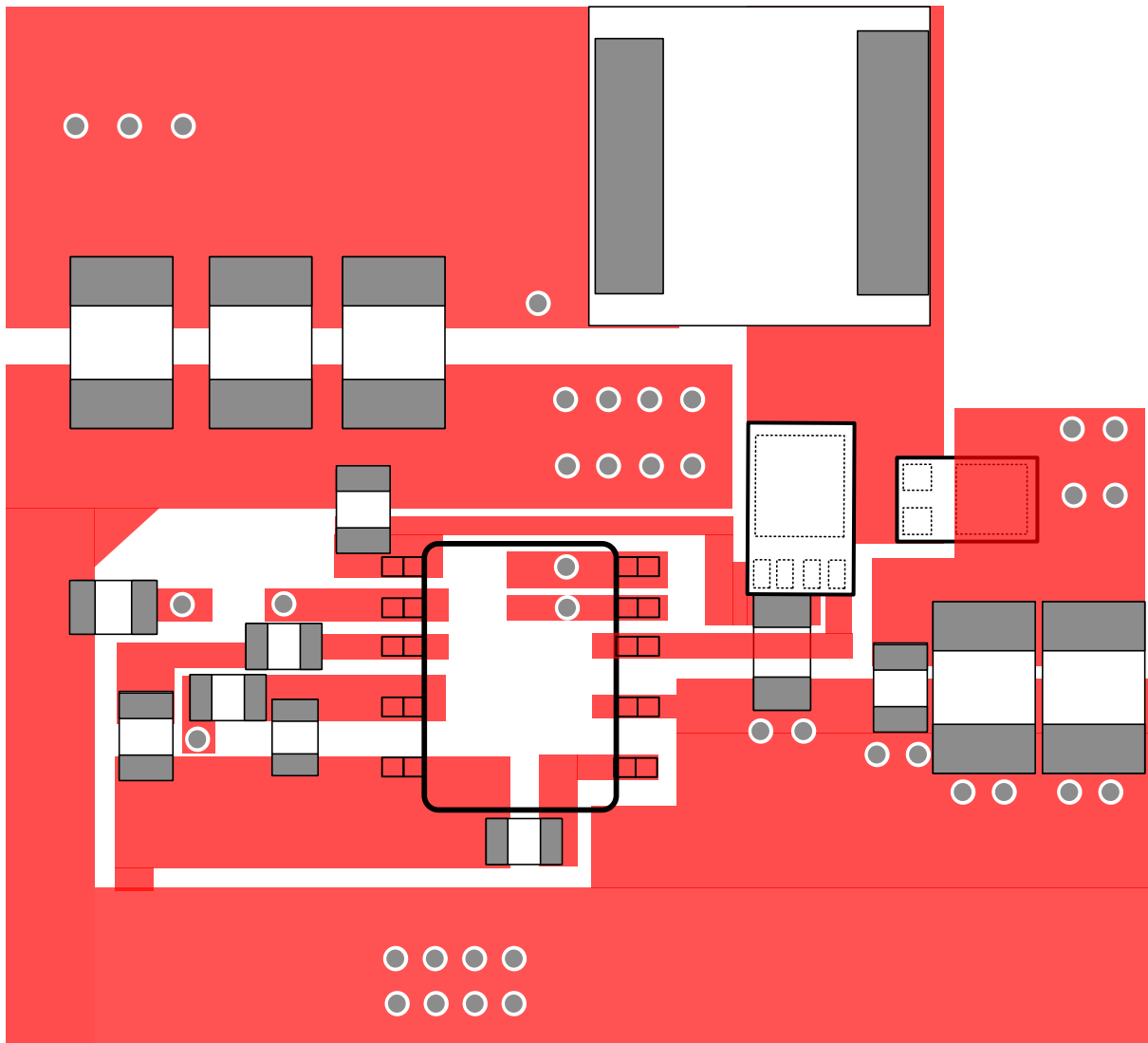
1.30V

2.00A

40.00%

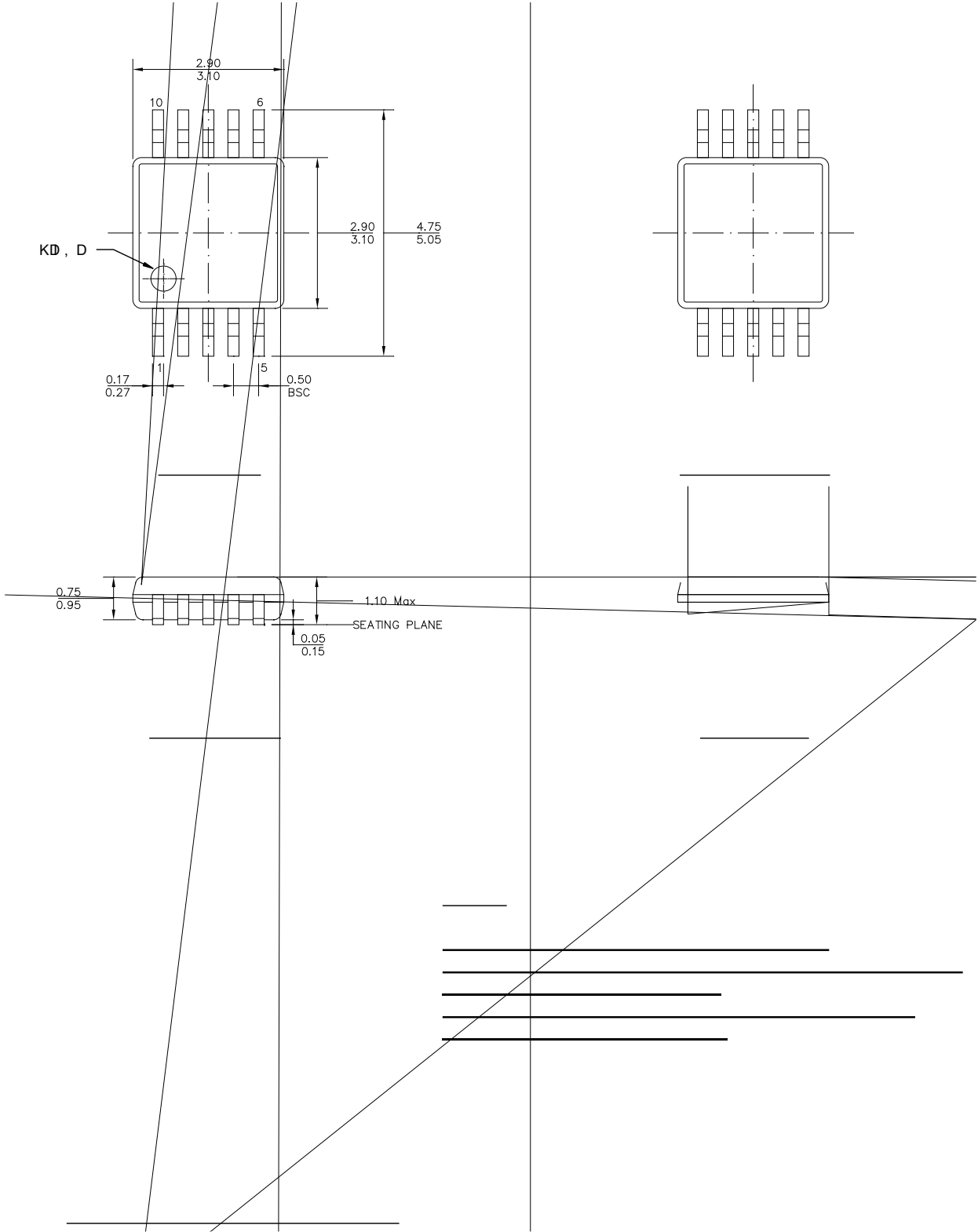


Knj_p oAj g_ mGifn5N>O3, 1- / L



Абpm . 1) = J J NOK > = G t j po

PACKAGE INFORMATION



TAPE AND REEL INFORMATION



Oc dārh āj dāth j ph iōnpe oġ cib rējpoiġd)Pn mncjpg r mio i bp mio ā āth
 k nā Do g gKrk nā nāon mijoāāb _pkji r ci āobmāāb Nāji >jioioO cijġbt N>O krh_p ādġ it
 kkġ āj)N>Or ājjo nph it gb gmnkjind ājmit n d kkġ āj n)