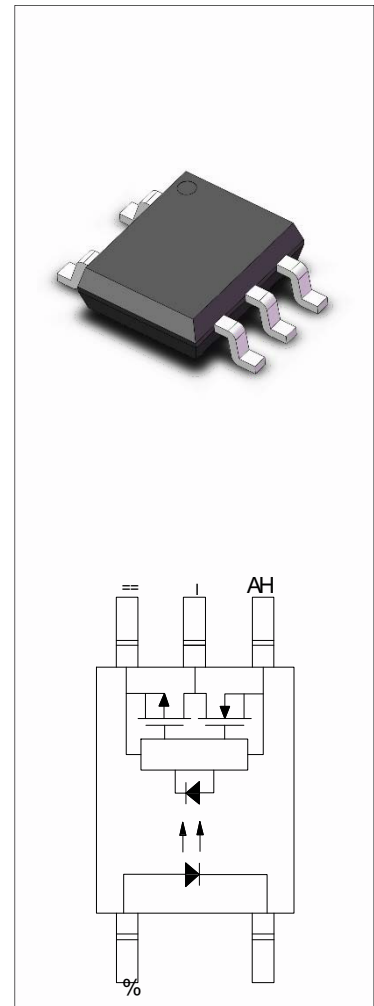




1 J/ (2/ ; A;
F &
=G &
(
. = %t+ =(&
&
&
&
(
B -1/ G
B +/G<
I . = ++ =
; =B B
B<G4B; 5GG4G 5= G4--
= =
F



F	I
I H	F
I	B

7, / =

Parameter		Symbol	Value	Unit
C	=	C	/	;
	J =	G	+	;
			0	

	C J	J	+	
I		=	1	
	I	I	==%(/	
	I =	C	+	;
	I J	J _I	,,	
J		J	+ ₊	
C			-1/	
I			. ++	
D			+ ₊ /	
			// + ₊ /	
			,0	

7, / =

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
C			C ₇ + ;		+(- /	+0	
	C <	<	C ₇ + ;	/			
	=	C	70			+	;
	C =	=	7 & 7+GB		-	+	
I	B F =	C _B	==7/ & 7 ;			0(/	;
	F F =	C _F	==7/ & 7+ ;			0(/	;
	F B I	I B	C ₇ ; & 7, ;	(+			
	F F I	I F	C ₇ 1 ; & 7, ; & ==7/		(,	(+	
	C	C _I	=/ . 0 (B(	+ + ₊			
	=	=C	7+GB		0		
=	= F	C	==7/			/	;

	J F F	JBF	C71 ; &F7+H		1	+	
	J F B	JFB	C71 ; &F7+H		//	+	
	= C B G F	=GB	C7 ; & =G7+ & =F7+H & =7//	,			)
	= C F G F	=GF	C71 ; & =G7+ & =F7+H & 7//	,			)

Characteristics	Symbol	Min.	Typ.	Max.	Unit
I		.		+ /	
	=	, (1		/ (	
F F C =	GF			, /	;
B F C =	GB	2		+0	;
	I			(2	

FIG.1: $\theta_{JA} =$ (

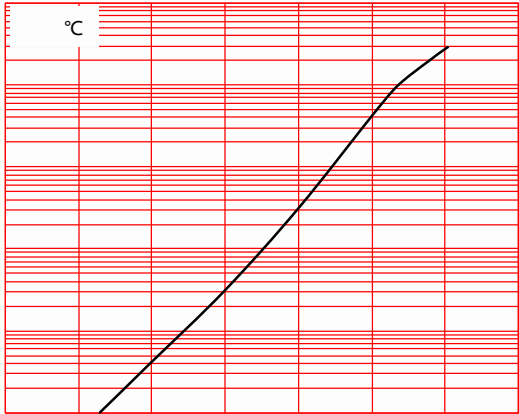


FIG.2: $G_{(T_J)}$ =
(;

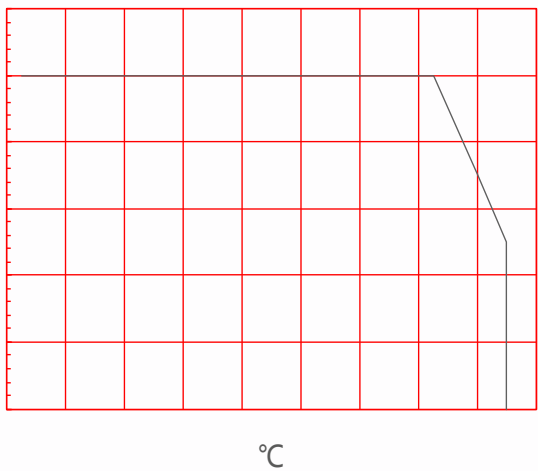


FIG.3: $F_{BI} =$ (;

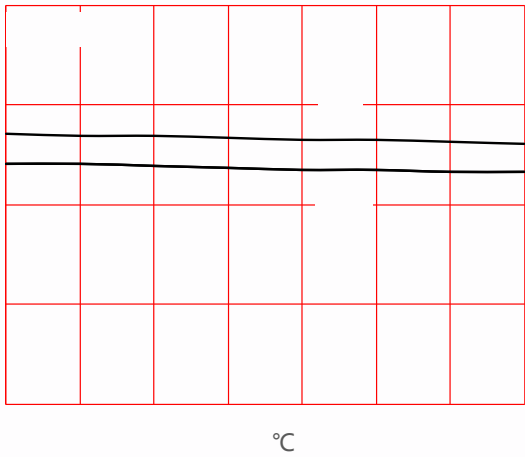


FIG.4: $F_{FI} =$ (;

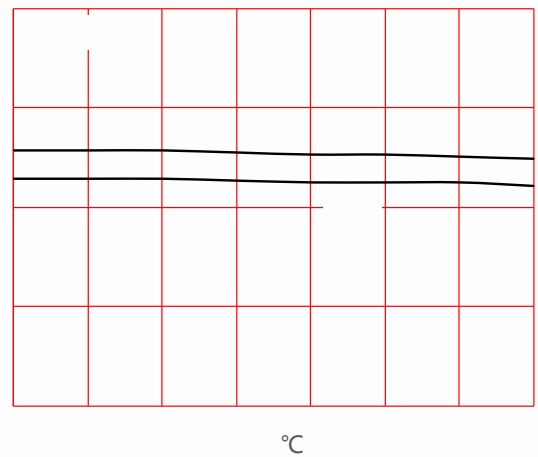


FIG.5: $J_{(T_J)}$ (;

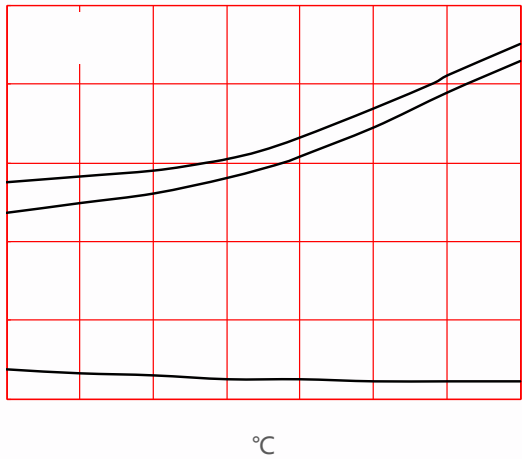


FIG.6: $C =$ (;

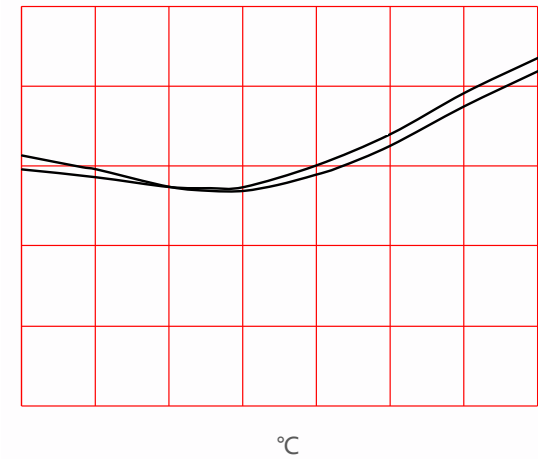


FIG.7: J

(;

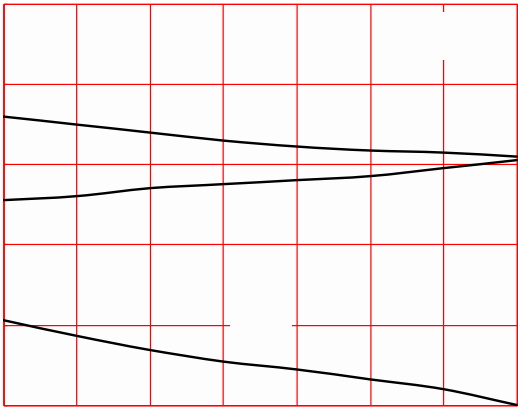


FIG.8: J

(;

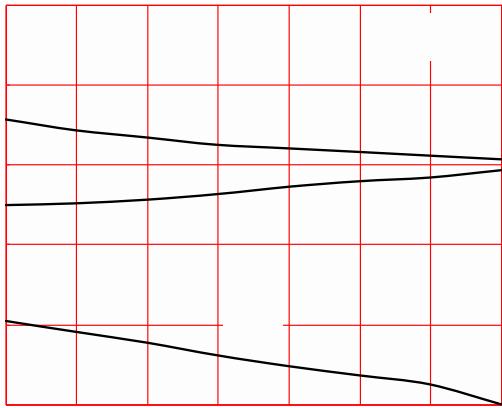


Fig.9: Switching Time Test Circuit and Waveform

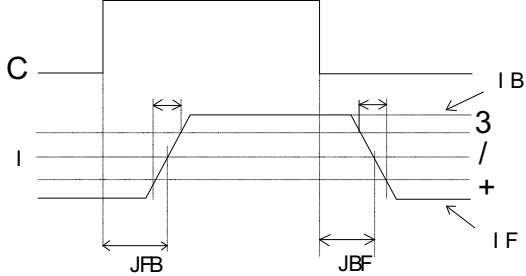
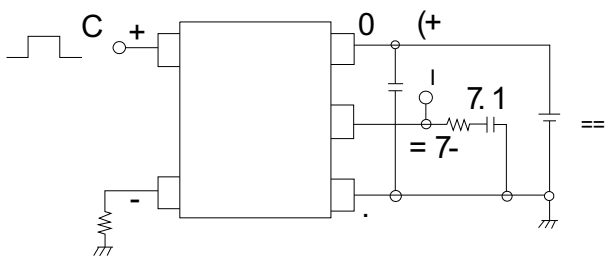
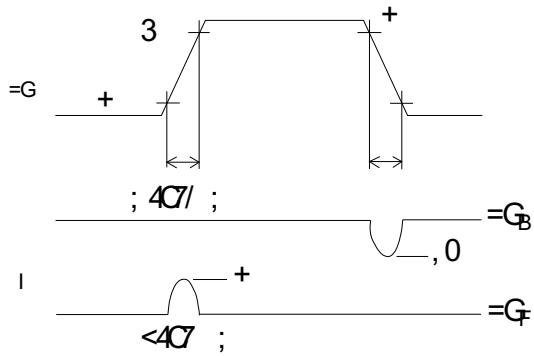
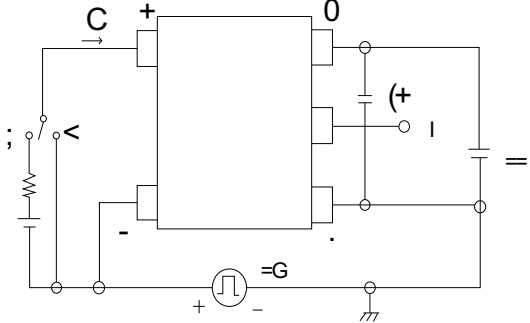
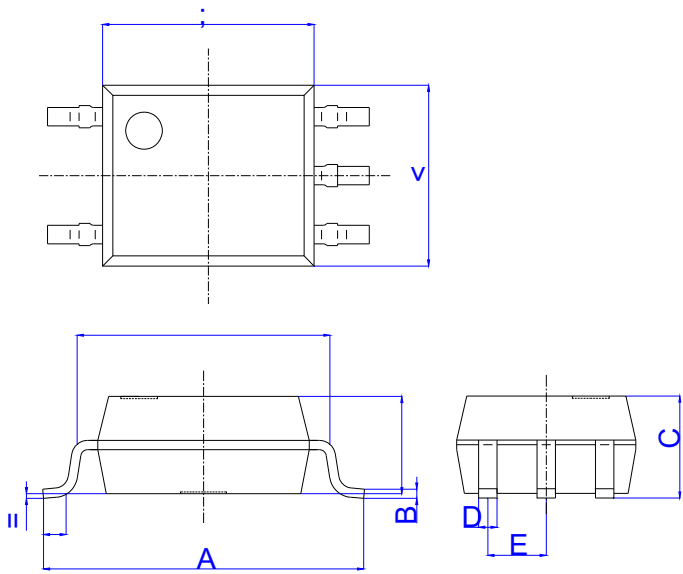
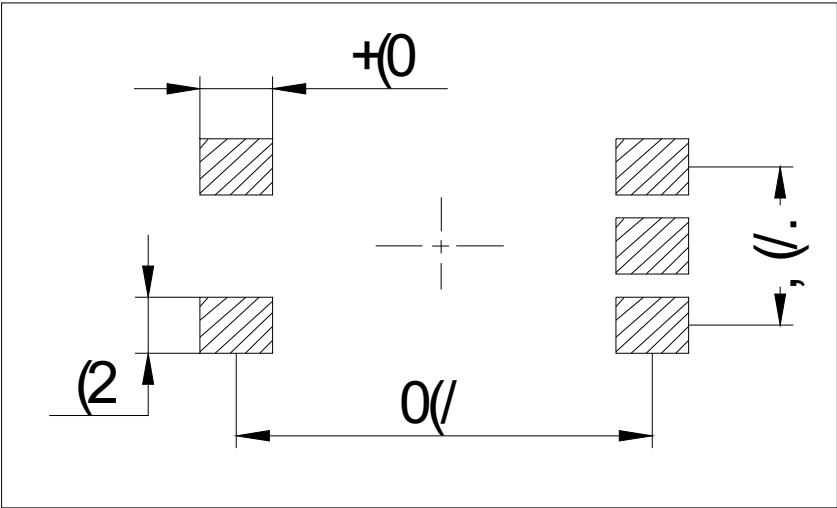


Fig.10: CMTI Test Circuit and Waveform

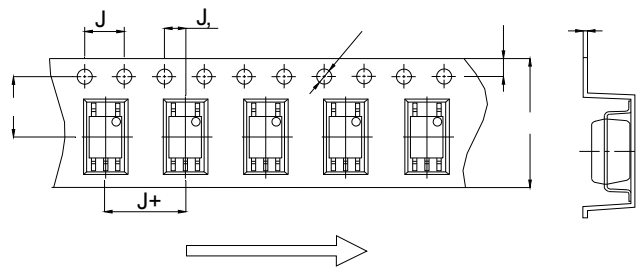




(	G			C		
	G (	(	G (	G (	(	G (
;	. (		. 2	(+1-		(+23
<	-0		. (	(+,		(+0/
=	(		(	(		(2
	+3		, (-	(1/		(3+
	/ (		/ 0	(+31		(,
	(-		(3	(+		(-1
A	01		1(-	(0		(21
B	(+		(-	(.		(+,
C	, (		, (	(13		(3
D	(/		(/	(+		(,,
E	+ (,		+ /,	(.		(0



Option None



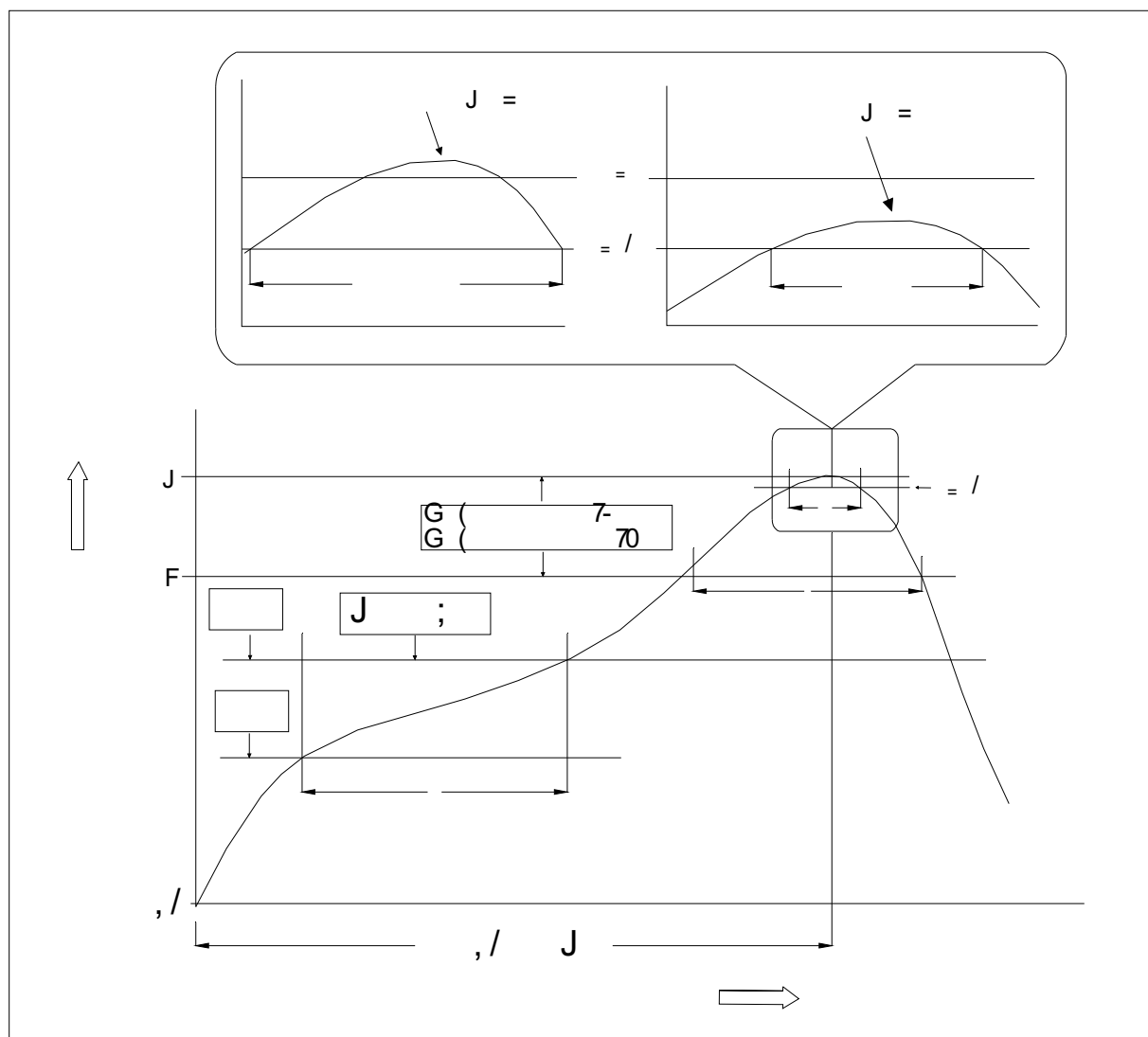
(	G			C		
	G (	(	G (	G (	(	G (
		+/	+0		/3	0-
J	-3	. (	. (+	(+.	(+1	(+0+
J+	13	2(	2+	(-++	(-+/	(-+3
J,	+3	, (	, (+	(1/	(13	(2-
	+0/	+1/	+2/	(0/	(03	(1-
	. (	. /	. 0	(+1-	(+11	(+2+
	/	(-	(-/	(+	(+	(+
	+3	+ (	+ (-	(03	(1,	(2

Option R

5

R

f 5



Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
G (	+	+/
G (	+/	,
	0 +,	0 +,
F J	-) (	-) (
F F	+2-	, +1
F G ; F	0 +/	0 +/

H 4
+(& (
, (;
(
- (; (C
& , (/H(
.(
(
/(
(
0((4 . =5
460 5
G F 4G F+

C (B &
D D D G = (& F (
(C
& (
J D D D D
D D D D
(
(
=  , , 0D D D G D D G = (& F (; = (& F (
(