



JMG600HF12G3S1

Features

- + @GL A MA 9L= K
- GO +L9Q F M L9F =
- GO +9LM9LAF . GD9 =
- D9 GO DKK
- (GO=J, =JE A9D
- =9 J= GE HDAFLOA@ G + =I MA=E=FL

Product Summary

Applications

- F M LADFN=J=K
- + =JNG HDA9LAFK
- + (+ - (+
- F M LAF =9LAF
- / =DAF

IGBT, Absolute Maximum Ratings

MFBKK GL@JAK= KH= AA

Parameter	Conditions	Symbol	Values	Unit
GD9 LGJ=E A=JNGD9 =	, NB	. +		.
9L= =E A=JH=9CNGD9 =	, NB	. +		.
GFLAMGVK GD9 LGJ MU=FL	,	FGE		
=HFLAN= H=9C GD9 LGJ MU=FL	L _c EK			
, G9DHGO=J KKA9LAF	, , NBE 9P	(LG		/



IGBT, Electrical Characteristics , MFBKK G@JK= K=F AA

Parameter	Conditions		Symbol	Values			Unit
				Min.	Typ.	Max.	
G@ LGJ=E A=JK9LM9LAF NGD9 =	.	.	K9L				.

9L= L@=K@D NGD9 =



FRED, Absolute Maximum Ratings

MFBKK G@JAK= KH= AA

Parameter	Conditions	Symbol	Values	Unit
=H=LAN= H=9CJ=H=JK= NGD9 =	, NB	.		.
GFLAMGMK GD9J MU=FL		.		
=H=LAN= H=9C GD9J MU=FL	L _q EK			
LN9DM= GJ MKA	, NB , L _q EK . .	L		K

FRED, Electrical Characteristics

MFBKK G@JAK= KH= AA

Parameter	Conditions		Symbol	Values			Unit
				Min.	Typ.	Max.	
GD9J NGD9 =	=	, NB	.				.
		, NB					
		, NB					
(=9CJ=H=JK= J= GN=JQ MU=FL		, NB					
		, NB					
= GN=J= @J =	= A L K	, NB	) JJ				
		, NB					
=N=JK= = GN=JQ=F=J Q		, NB	J=				E
		, NB					
, @JE 9DJ=KAL9F = BMF LAF LG 9K=	H=J AS =		LGB				/
, =E H=JLM= MF =JKOA @F GF ASFK			, NBGH				



NTC-Thermistor Characteristics

MFBKKGL@JKA=KTF AA

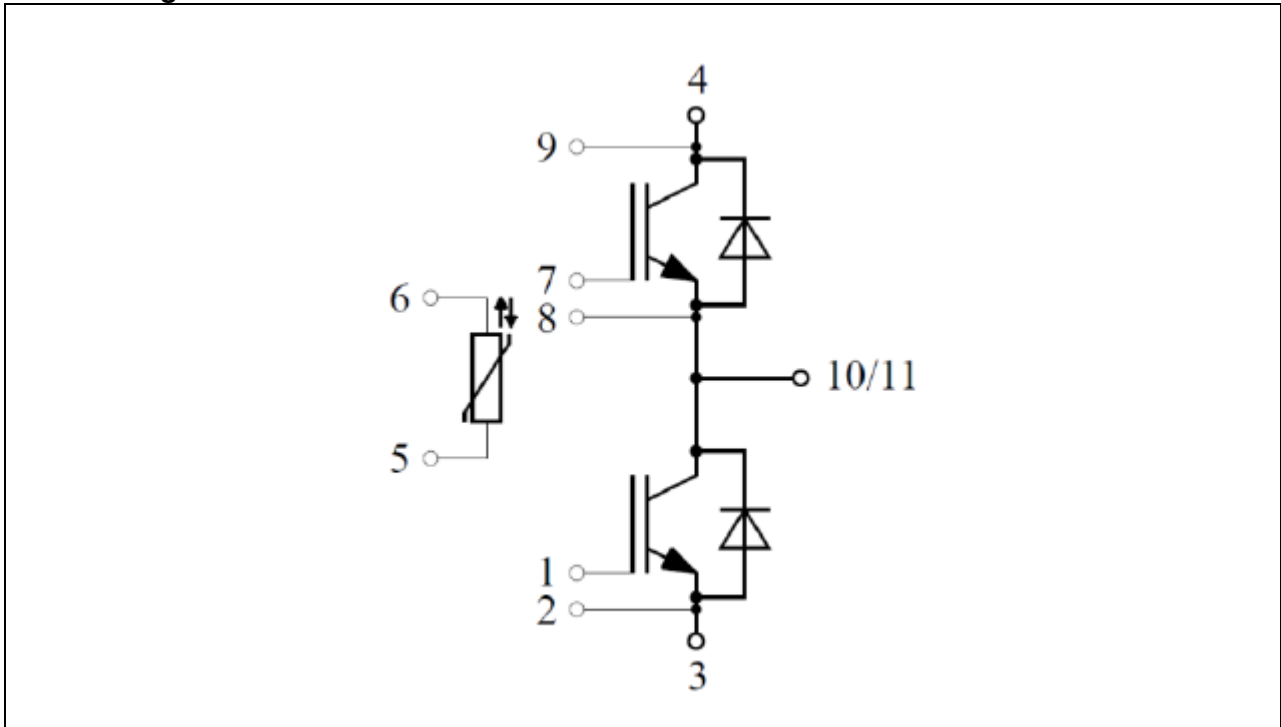
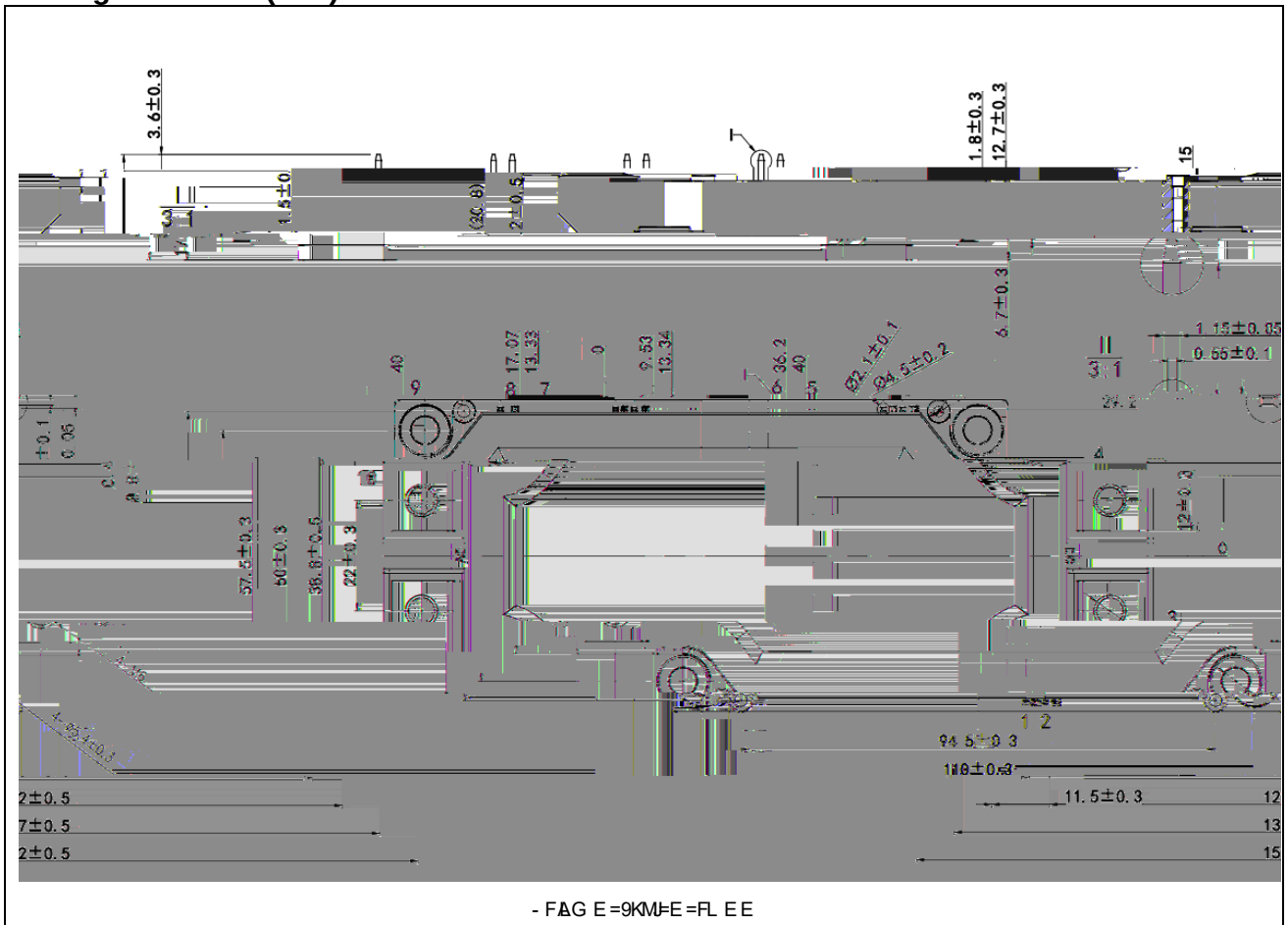
Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
9L= J=KAL9F =	, °C					
=NALAF G	,					
(GO=J AKALAF	,	(				E /
N9DM=	=PH3 , 5					
N9DM=	=PH3 , 5					
N9DM=	=PH3 , 5					

Module Characteristics

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
KG9LAF N9D9 = DL=JE A9DK KGL=	R E AM=	. KG				C
9PAE ME BMF LAF L=E H=JLMF		,				
, @JE 9DJ=KAL9F = 9K= LG @9LKAC	H=JEG MB	L@ K				/
+LG9 = L=E H=JLMF		, KL				
GE H9JLAF , J CA F =P		,				
+LBQA M L9F = E G MB		+				F
G MB B9 J=KAL9F = L=JE A9DK LG @N	H=JKOA @					E
GMFLA LGJ M= GJ@9LKAC						E
, =JE A9D GFF= LAF LGJ M=						E

Ordering Information

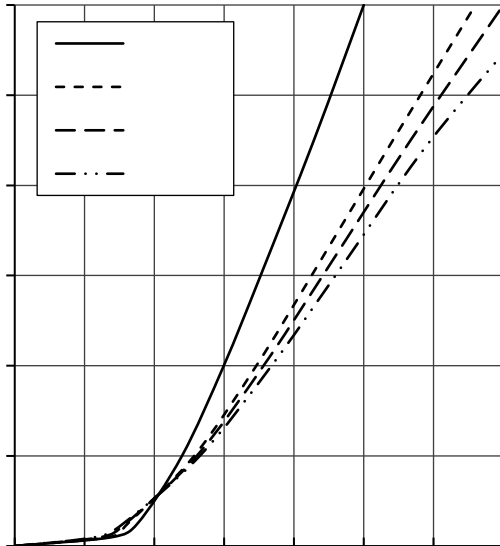
Device	Marking	Package	Weight	Inner Box	Per Carton
+	+		(+	(+	(+

Circuit Diagram

Package Outlines (mm)


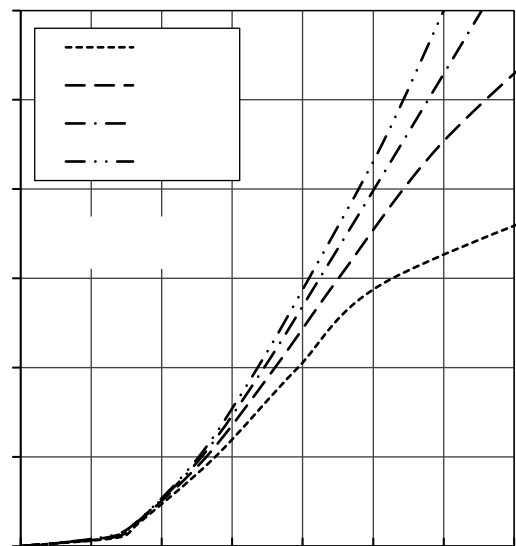


Typical Electrical & Thermal Characteristics

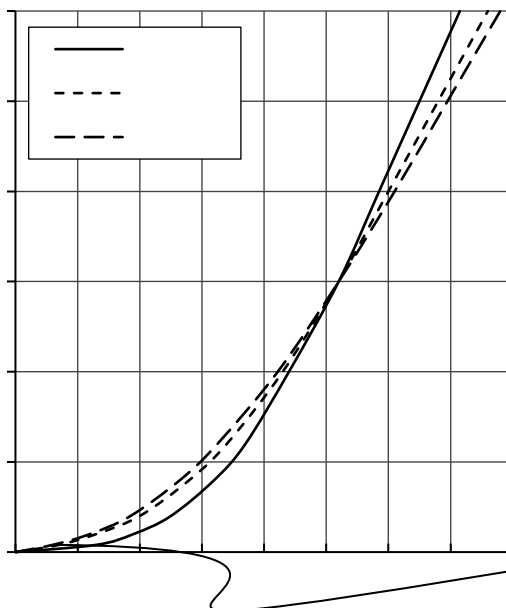
A, ' MHL @J L=JALAK
FN=J=J LQHA9D.



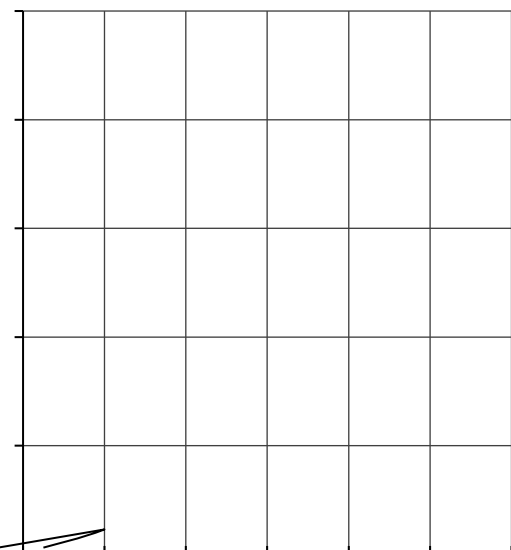
A, ' MHL @J L=JALAK
FN=J=J LQHA9D



A, , JFK=J @J L=JALAK
FN=J=J LQHA9D.

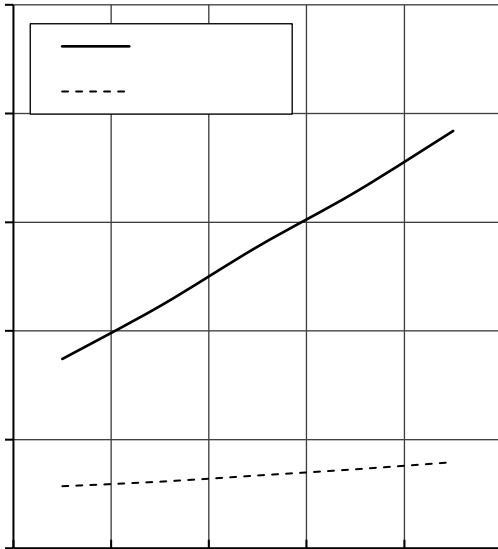


A, +OA @F GKKNK
FN=J=J LQHA9D

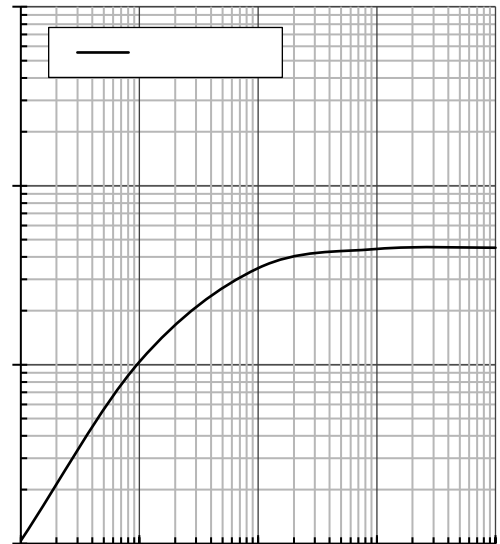




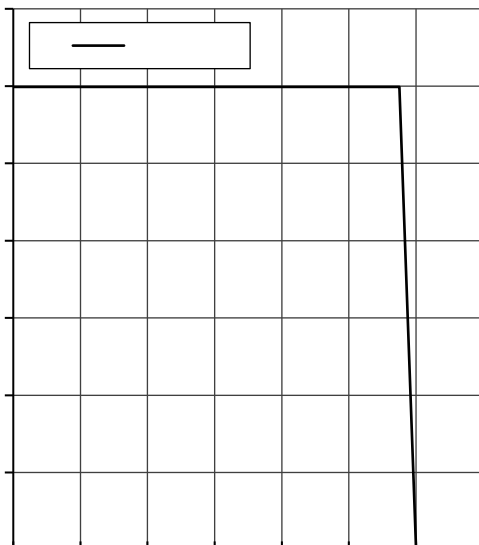
A , +OA @F GKKN
FN=L=J LQHA9D



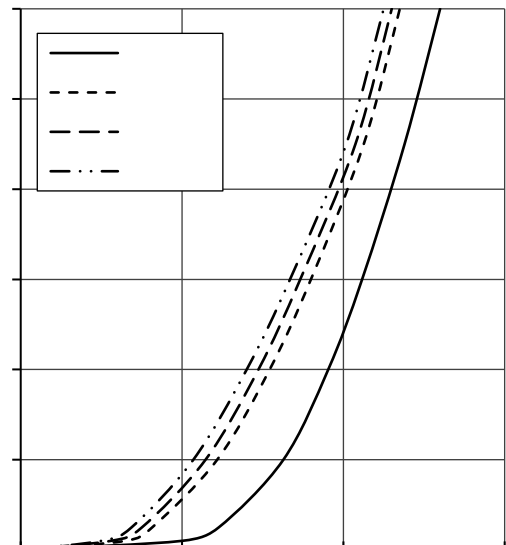
A , , BFKAF, @E 9DEH= 9F =



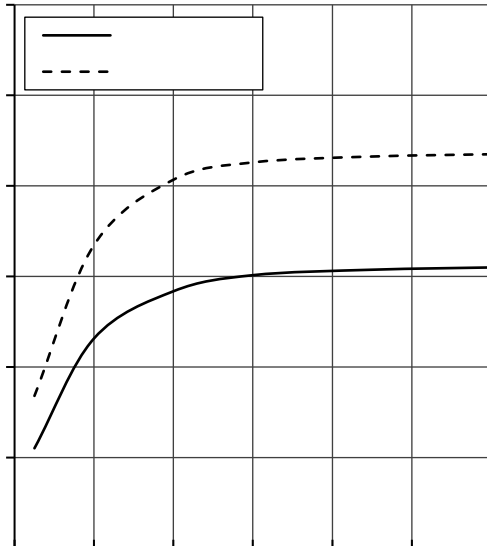
A =N=K=: AKK9 = G=FJLAF 9J=9
FN=L=J +'



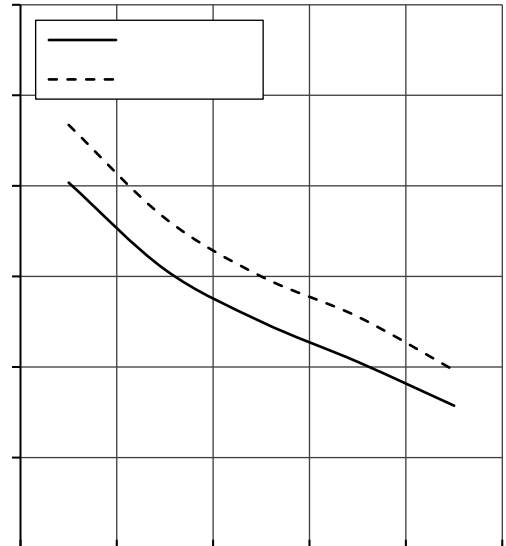
A GD9J @J L=JALAK
FN=L=J LQHA9D



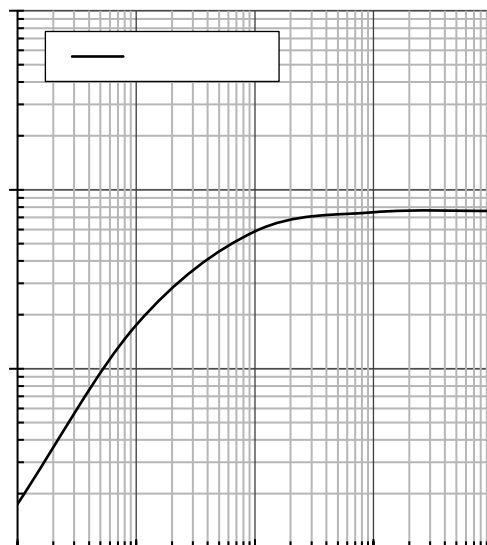
A +OA @F GKKN
FN=J=J LQHA9D



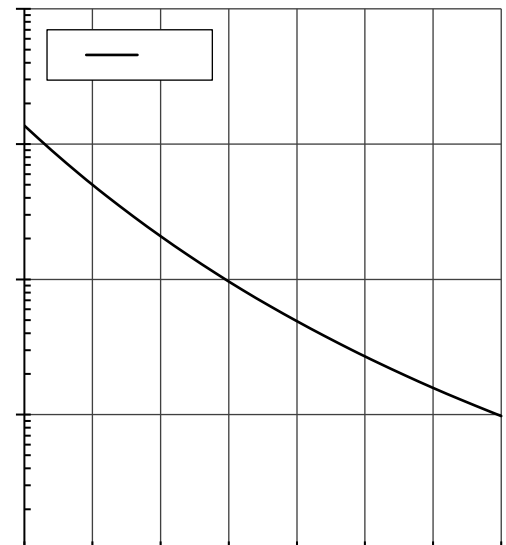
A +OA @F GKKN
FN=J=J LQHA9D



A , JFKAFL, @JE 9DEH= 9F =



A , =E H=JLM= @J L=JALAK
, L@JE ALGJ LQHA9D





FGE9LAF MFA@ A L@K G ME=FL K:=DAN= LG:= 9 M9L= 9F J=D: B GO=N=J
AF KM A A+=EAGF MLGJ G L 9KKME=KFGJ=KHGFKAADQ GJL@ GFK=I M=F =KG MK=
O@ML GFKA=JLAF GJLM @A GE9LAF FGJMK=: =QF A, @A GE9LAF A L@K G ME=FL
KKMB= LLG @F =O@MLHJGFQA= GOA@L9F A L@K AF KM A A OADMD GEHQ
O@L@ L=JEK GMDA= A 9 KAF= 9 J=E=FL (JG MJK 9F A GE9LAF HJNA= A L@K
G ME=FL @N= FG A JA =E=FLG H9L=FLK AF KM A A 9KKME=KFGJ=KHGFKAADQ GJ9FQ
A JA =E=FLG G@JJA@KG L@A H9JAKO@A@ 9QJ=KMD J@ L@ MK= G KM @HG MJK9F
A GE9LAF , @A G ME=FL K L@A AADJ=B9K= 9L= +=H=E:=J