



JMG150HF12G1S1

Features

8MTW(N4ZY7 YI X
1T 8YW .SI ZHYSHJ
1T 8 ZWYTS TQLJ
: QW1T QXX
- . 7 1 5T JVOJVRIS Q
1J I +WJ (TRUQSY NM7T- 8 7JVZNRJSY

Product Summary

Applications

.SI ZXWQS JWWX
8JWT UUCH YTSX
8258
: 58
.SI ZHNTS- J YSL
JQNSL

IGBT Absolute Maximum Ratings 9((ZSQXXTWJWIXJ XJHNI

Parameter	Conditions	Symbol	Values	Unit
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JMG150HF12G1S1



FRED Absolute Maximum Ratings 9 (ZSQXXTYWJWJXJ XJHJHJ

Parameter	Conditions	Symbol	Values	Unit
7JWJWJW PW JWJ TQ LJ	9 o (	772		
(TSYSZTX) (KTW WHZWWSY		+.		
7JWJWJW PKTW WHZWWSY	Y RX	+.72		
. Y QJKTWZNSL	9 o , Y RX 7	. Y		X

FRED Electrical Characteristics 9 (ZSQXXTYWJWJXJ XJHJHJ

Parameter	Conditions		Symbol	Values			Unit	
				Min.	Typ.	Max.		
+TW W TQLJ	.+ =	9 o (	+					
		9 o (						
5J P W JWJ WHT JWHZWWSY	.+ = I N Y 7 ,	9 o (	.72					
		9 o (						
7JHT JWJ HM WJ		9 o (	6 w				(	
		9 o (						
7J JWJ 7JHT JWJSJW		9 o (	WH				R/	
		9 o (						
9MJVR QWXY SHJ QZSHNTSYTH XJ	UWVNTI J		7 MOH				0	
9JR UWVZWZSI JWJ NFMSL HTSI NTSX			9 OTU					



Module Characteristics

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
XTQNTS TQLJ QJVRN QXMTMI	K - RNSZY	IKT				P
2 IRZR QZSHNTS YRUWWZW		9I				
9MJVR QWXY SHJ H XJ YTMJ YNSP	UWVRTI ZQ	7MHX				0
8YWLJ YRUWWZW		9XL				
2 TZSYL YTWZJ	2	2				3 R
9JVRN QHTSSJHNTS YTWZJ	2	2				3 R

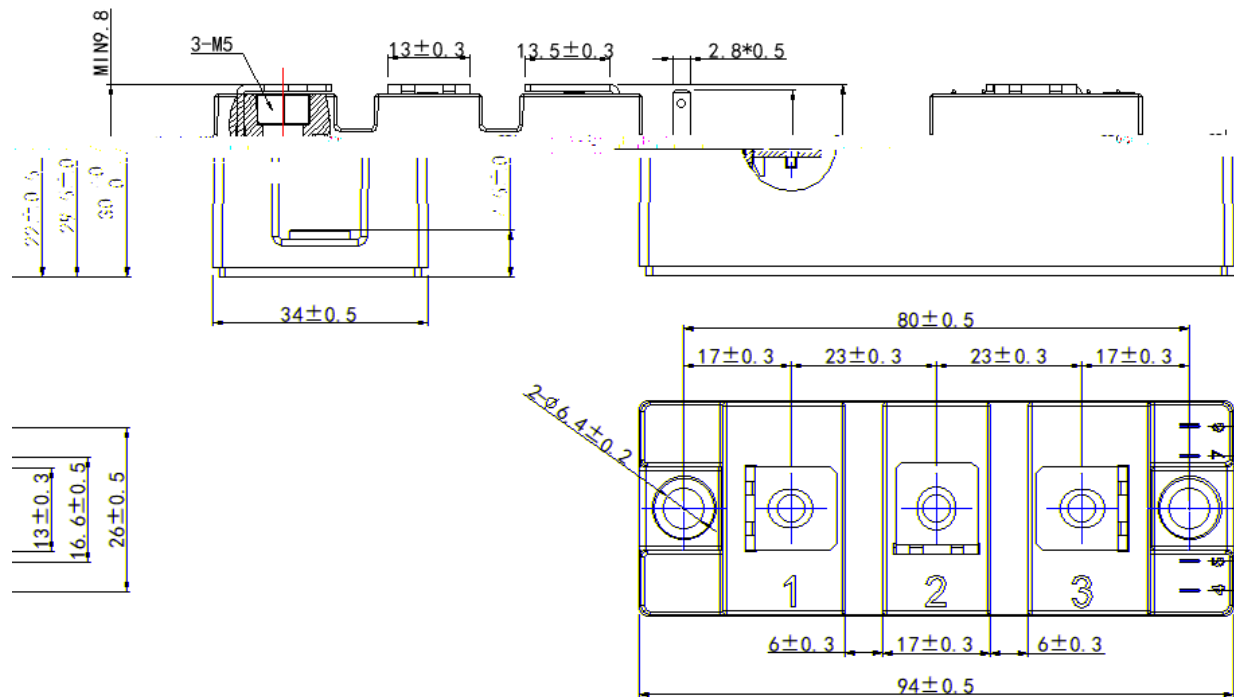
Ordering Information

Device	Marking	Package	Weight	Inner Box	Per Carton
/2, - + , 8	/2, - + , 8	, RR	L 5(8	5(8	5(8

Circuit Diagram

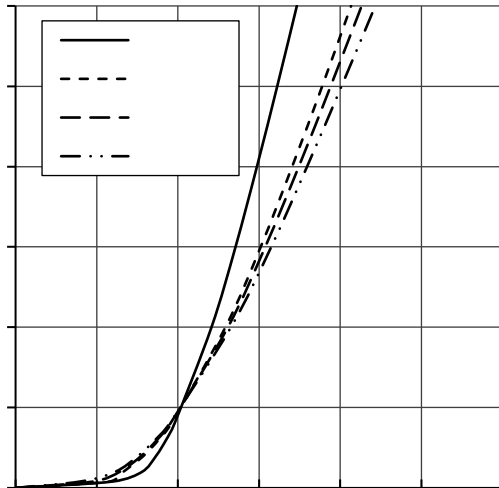


Package Outlines (mm)

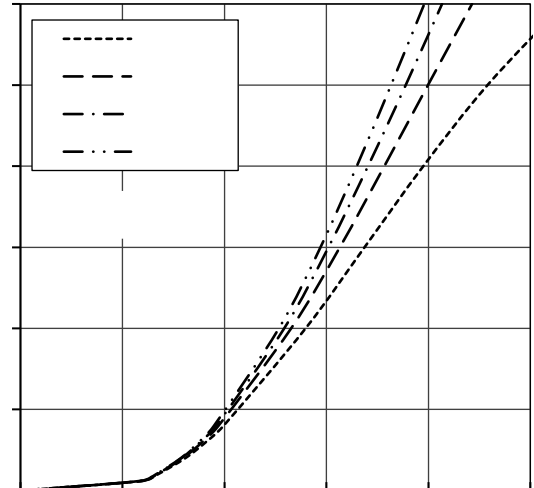


: SNTKRJ XZWRJSYRR

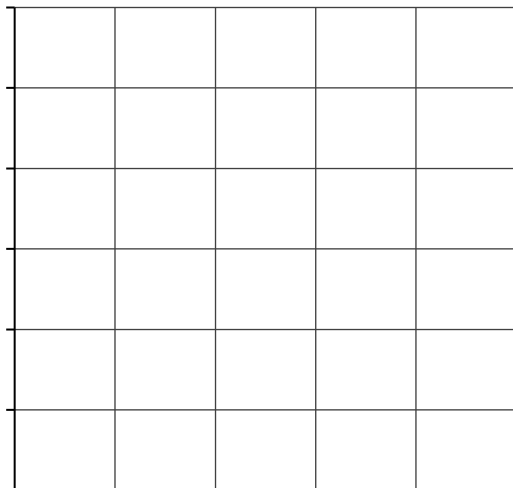
Typical Electrical & Thermal Characteristics



2 2



2 2





.SKTR YTS KZVSMI \$ YMX I THZRJSYNX GJQ JI YTGJ HZWWY SI WQGG - T J JW
/NSLXZ/N/N 8JRNTSI ZHTW T 1Y XXZRJXST WXUTSXNDY KTWU HTSXJVVZJSHXTKZXJ
NMZYHTSXNJWYTSKTVZHMISTVR YTSSTVZXJ GJ TSI N9MXISTVR YTS \$ YMX I THZRJSY
KXZGCHYTHM SLJ NMZYUWTVSTYHU 3TY NMXYSI SL YMX /NSLXZ/N/N NQZQ HTRUQ
NM YU YVRXTZYSJ \$ XLSJ LWRJJSY 5M ZHX SI SKTR YTS UVT NJI \$ YMX
I THZRJSYM J ST \$ NLSLJRJSYTKU YSYX /NSLXZ/N/N XXZRJXST WXUTSXNDY KTW S
\$ NLSLJRJSYTKYUWVMXTKYNVU WUX MMR WXZQKTR YU ZXJ TKXZHMUM ZHX SI
SKTR YTS 9MX I THZRJSYNX YU SNQWQ XJ I YI /ZSJ 9MX I THZRJSY
XZUWUJ JX SI WUQHJX QSKTR YTS UW NTXQ XZUQI

JK WLNXYW YMJR WTK/NSLXZ/N/N 8JRNTSI ZHTW T 1Y /NSLXZ/N/N
8JRNTSI ZHTW T 1Y QMMXWXJWJI