

($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V R_L=33$	- -	MAX.	25	mA
				70	
V_{GT}		ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM} T_j=125$ $R_L=3.3k$	ALL	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	- -	MAX.	50	mA
				100	
I_H	$I_T=500mA$		MAX.	40	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$		MIN.	200	$V/\mu s$
(dV/dt) _c	(dI/dt) _c =7.2A/ms, $T_j=110$		MIN.	10	$X/\mu \bullet$
t_{on}	$I_G=80mA I_A=400mA I_R=40mA$ $T_j=25$		TYP.	10	s
t_{off}				70	

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=15A t_p=380 s$	$T_j=25$	1.5	V
V_{TO}	Threshold voltage	$T_j=125$	0.75	V
R_D	Dynamic resistance	$T_j=125$	27	{
I_{DRM}	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	5	A
I_{RRM}		$T_j=125$	0.5	mA

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	1.3	μW
$R_{th(j-a)}$	junction to ambient (AC, in free air, $S=2cm^2$)	45	μW

<u>J</u>	<u>ST</u>	<u>139</u>	<u>E</u>	<u>-800</u>	<u>F</u>	<u>-/</u>
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}: 16A$	E:TO-263	800:V _{DRM} /V _{RRM} 800V	F:IGT1-3 25mA IGT4 70mA	Blank:Tube -TR:Tape & Reel

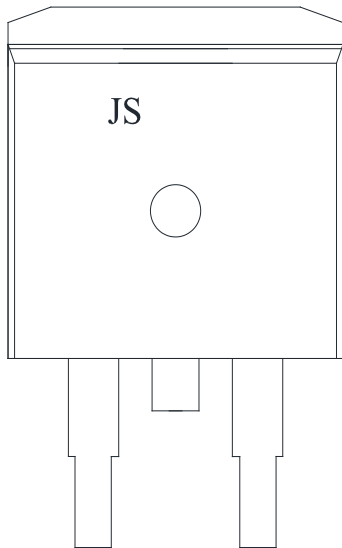




FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

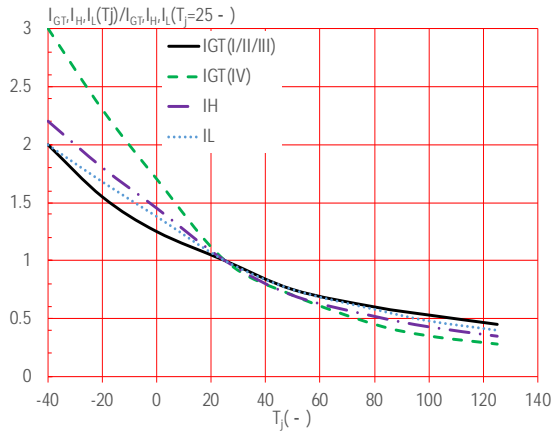
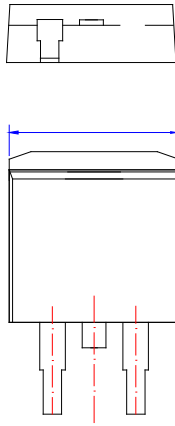
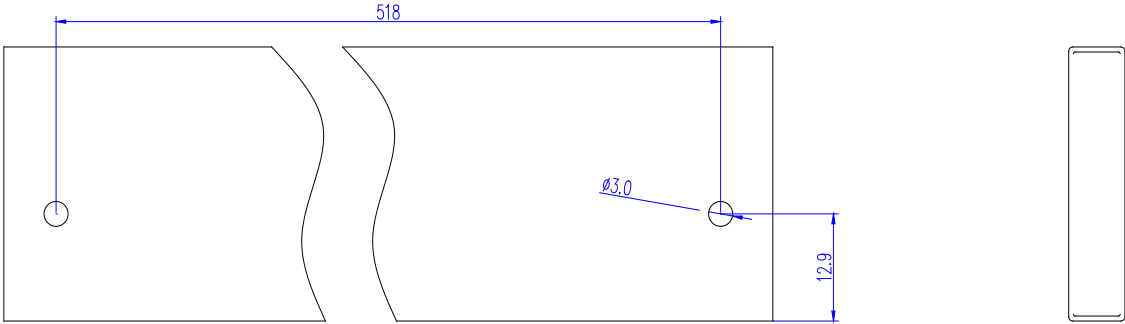


FIG.8

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	
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Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.40		9.60	0.370		0.378
D	2.40			0.094		
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033



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