

ELECTRICAL CHARACTERISTICS ($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	5	mA
				10	
V_{GT}		ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k\Omega$	ALL	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	- -	MAX.	20	mA
				30	
I_H	$I_T=100mA$		MAX.	15	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$		MIN.	80	V/ μs
$(dV/dt)_c$	$(dI/dt)_c=2A/ms$, $T_j=125$		MIN.	2	V/ μs
t_{on}	$I_G=20mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		TYP.	1.5	μs
t_{off}				15	

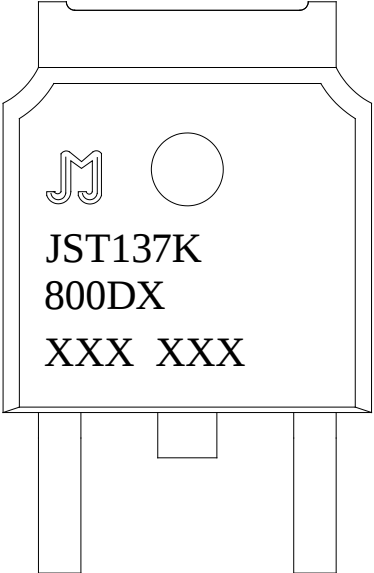
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=10A$ $t_p=380\mu s$	$T_j=25$	1.6	V
V_{TO}	Threshold voltage	$T_j=125$	0.86	V
R_D	Dynamic resistance	$T_j=125$	75	m Ω
I_{DRM}	$V_D=V_{DRM}$ $V_R=V_{RRM}$	$T_j=25$	5	μA
I_{RRM}		$T_j=125$		

ORDERING INFORMATION

J	ST	137	K	-800	D	X	-/
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}:8A$	K:TO-252	800: $V_{DRM}/V_{RRM} \geq 800V$	D: $I_{GT1-3} \leq 5mA$ $I_{GT4} \leq 10mA$	X:Small current	Blank:Tube -TR:Tape & Reel

MARKING

 JST137K 800DX XXX XXX	XXX XXX Year Month Production Code
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JST137K-800DX

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

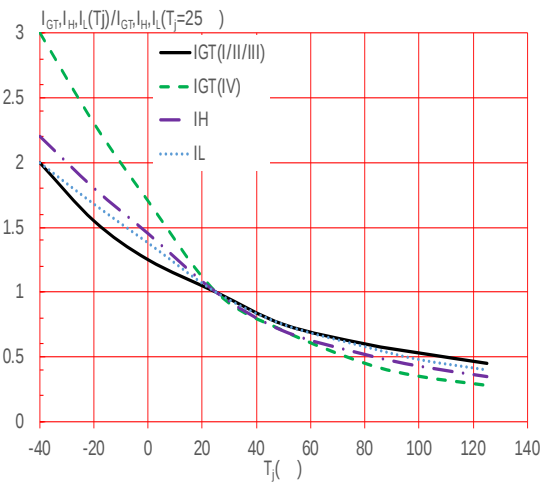


FIG.8 Test t

ORDERING INFORMATION

Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		- -				
JST137K-800DX	800	5	10	TO-252	80	Tube
JST137K-800DX-TR					2,500	Tape & Reel

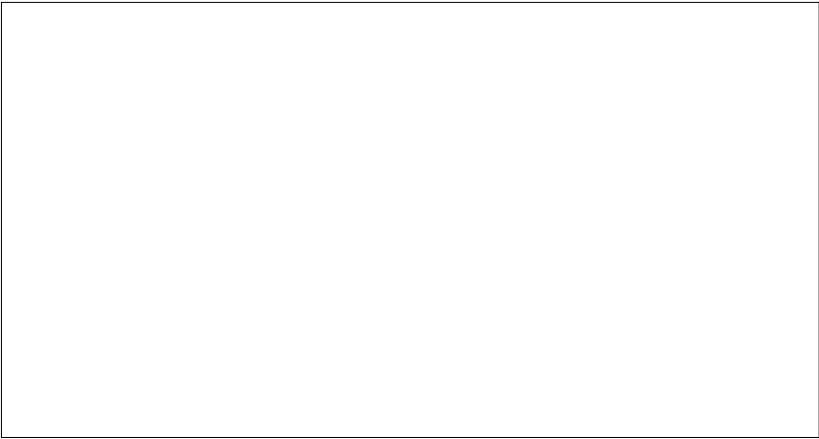
Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.22, 2025	A.1	

PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.10		2.50	0.083		0.098
A2	0		0.15	0		0.006
B	0.66		0.86	0.026		0.034
C	0.40		0.60	0.016		0.024
D	5.90		6.30	0.232		0.248
E	6.40		6.80	0.252		0.268
G	4.47		4.67	0.176		0.184
G1	2.18		2.38	0.086		0.094
L	1.09		1.21	0.043		0.048
L2	1.352.0.L			0.053		0.065

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