

Average gate power dissipation ($T_j=125$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8)	V_{pp}	0.7	kV

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

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12V$ $R_L=33$	-	-	15	mA
V_{GT}		-	-	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$	0.2	-	-	V
I_L	$I_G=1.2I_{GT}$	-	-	40	mA
I_H	$I_T=100mA$	-	-	30	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$	500	-	-	V/s
t_{on}	$I_G=20mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$	-	3	-	s
t_{off}		-	50	-	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=23A$ $t_p=380$ s	$T_j=25$	1.6	V
V_{TO}	T			

ORDERING INFORMATION

<u>J</u>	<u>CT</u>	<u>151</u>	<u>E</u>	<u>-800R</u>	<u>-/</u>
JieJie Microelectronics Co., Ltd.	SCRs				Blank:Tube -TR:Tape & Reel
		<u>It(RMS):12A</u>		<u>800R:V_{DRM} /V_{RRM} 800V</u>	
			E:TO-263		

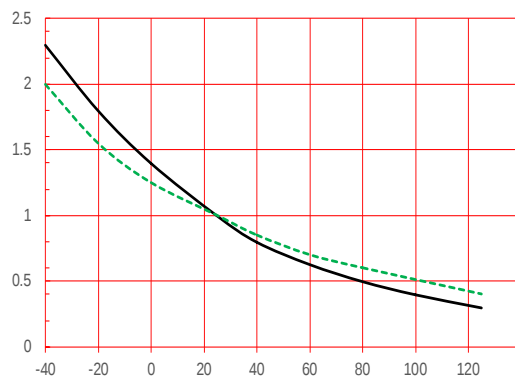
MARKING

JCT151E-800R

JieJie M

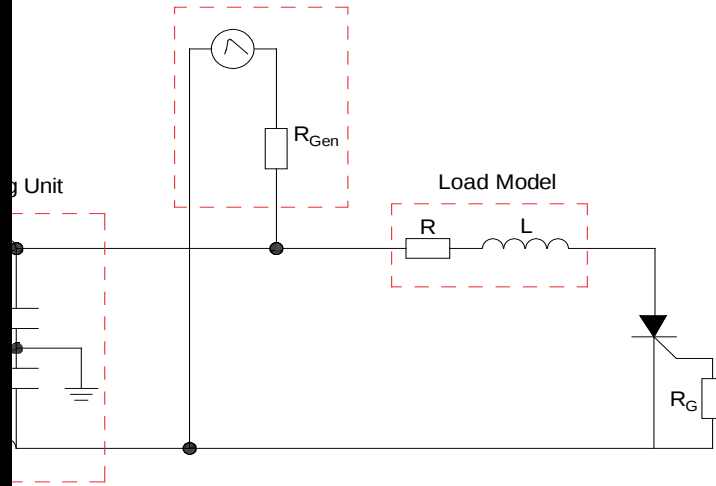
FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

PN74151E-03741.00335783903366859210.623572.C211579



for inductive and resistive loads to IEC-61000-4-5 standards. Use as a Peak

IEC61000-4-5 Standards
Surge Generator



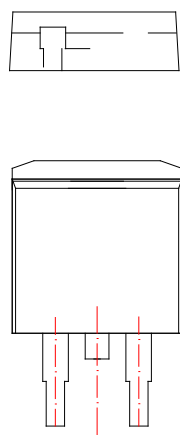
ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT151E-800R	800	15	TO-263	50	Tube
JCT151E-800R-TR				800	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last update
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



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

DELIVERY MODE

