



**JST137C-800DX 8A TRIAC**

Rev.A.1.1

**DESCRIPTION:**

The JST137C-800DX triac is suitable for general purpose

AC switching. It can be used as an ON/OFF function.  $I_{Tj} = 15.57 \text{ A}$ ,  $t_{230} = 0.23 \text{ s}$ , EMC

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

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

STATIC CHARACTERISTICS

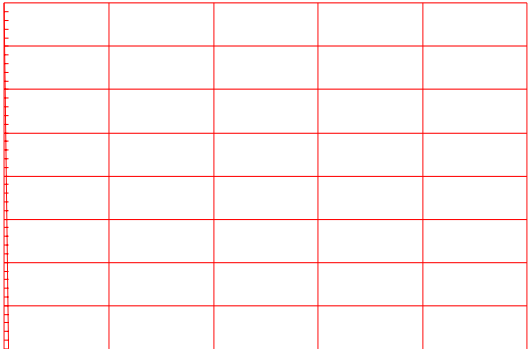
Symbol	Parameter	Value(MAX.)	Unit	
$V_{TM}$	$I_{TM}=10A t_p=380\mu s$ $T_j=25$	1.6	V	
$V_{TO}$	Threshold voltage $T_j=125$	0.86	V	
$R_D$	Dynamic resistance $T_j=125$	75	m	
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	5	$\mu A$
$I_{RRM}$		$T_j=125$	0.45	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	2.3	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W



**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards





PACKAGE MECHANICAL DATA



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