



## JST137D-800F 8A TRIAC

Rev.A.1.0

### DESCRIPTION:

The JST137D-800F triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Package TO-262 is RoHS compliant.

### MAIN FEATURES

### ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150	
Operating junction temperature range	$T_j$	-40-125	
Repetitive peak off-state voltage ( $T_j=25^\circ\text{C}$ )	$V_{DRM}$	800	V
Repetitive peak reverse voltage ( $T_j=25^\circ\text{C}$ )	$V_{RRM}$	800	V
RMS on-state current ( $T_c=100^\circ\text{C}$ )	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (full cycle, $t_p=20\text{ms}$ , $T_j=25^\circ\text{C}$ )	$I_{TSM}$	65	A
Non repetitive surge peak on-state current (full cycle, $t_p=16.6\text{ms}$ , $T_j=25^\circ\text{C}$ )		72	

$I^2t$  value fore f7 (e 28 Tm (2)Tj 0.004 Tc -0.0e 28 Tm (2)Tj 0.004 Tc -0.()1 (f)-14 (u)-6 (l 31.2 re

ELECTRICAL CHARACTERISTICS (T<sub>j</sub>=25℃ T<sub>w</sub> 12.496 0 T<sub>d</sub> 07>



**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



**ORDERING INFORMATION**

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
<b>JST137D-800F</b>	<b>800</b>	<b>25</b>	<b>70</b>	<b>TO-262</b>	<b>50</b>	<b>Tube</b>

				ax.
				0.402
				0.947
				0.378
				0.207
				0.055
		0.31		0.033
		0.175		0.179
	0.60	0.087		0.102
	0.52	0.019		0.020

