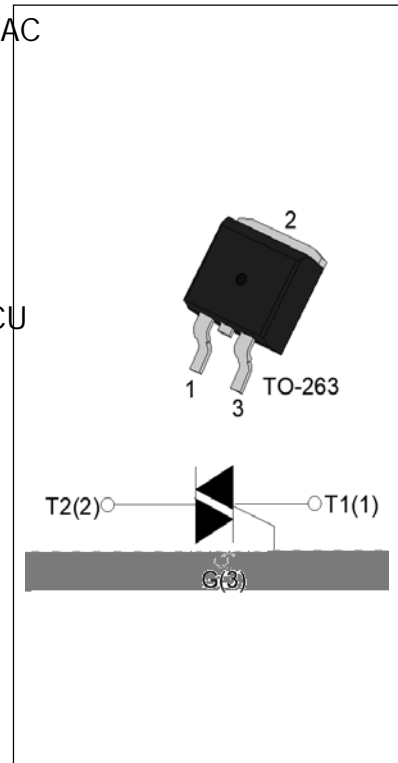


DESCRIPTION:

The JST12E-800TW 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. JST12E-800TW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU port. Package TQ263 is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	12	A
V_{DRM} / V_{RRM}	800	V
$I_{GT} / /$	5/5/5	mA

ABSOLUTE MAXIMUM RATINGS

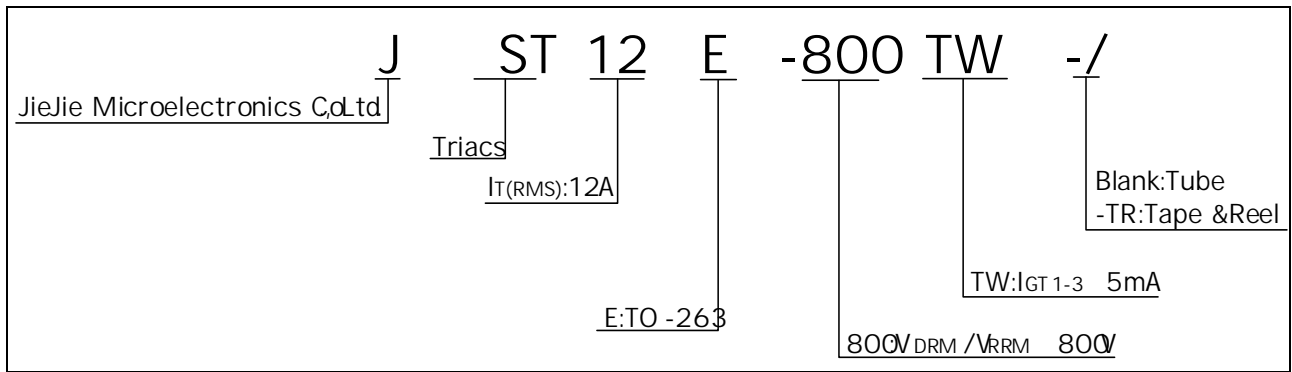
Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage ($f=25$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($f=25$)	V_{RRM}	800	V
RMS on-state current ($T=103$)	$I_{T(RMS)}$	12	A
Non repetitive surge peak on-state current (full cycle, $p=20ms$, $f=25$)	I_{TSM}	120	A
Non repetitive surge peak on-state current (full cycle, $p=16.6ms$, $f=25$)		132	
I^2t value for fusing ($t=10ms$, $T_j=25$)	I^2t	72	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100Hz$, $f=125$)	di/dt	50	A/s
Peak gate current ($t=20s$, $T_j=125$)	I_{GM}	4	A
Average gate power dissipation ($f=125$)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W

Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.8)	V_{pp}	3.5	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol Test Condition Quadrant

ORDERING INFORMATION



MARKING XXX XXX

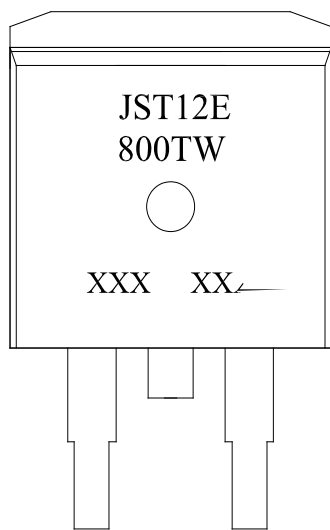
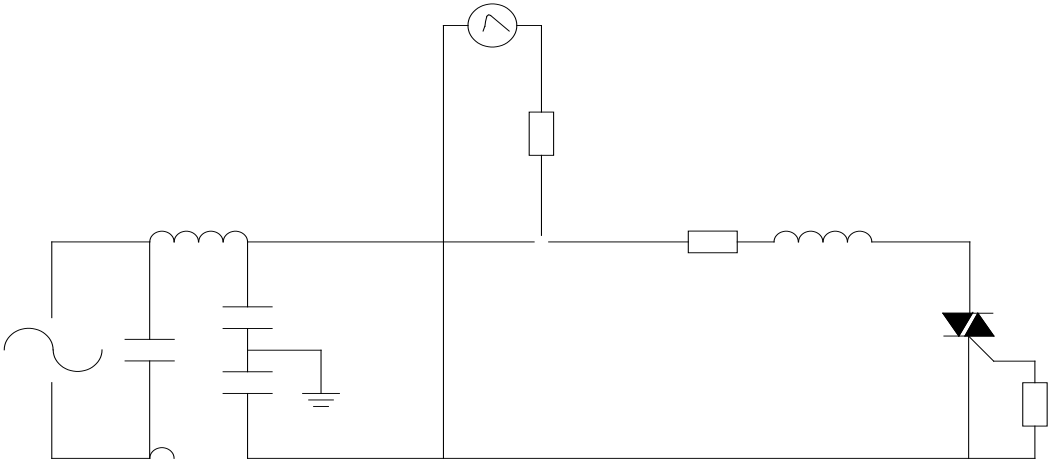


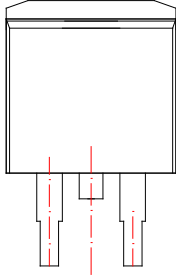
FIG.8 Test circuit for inductive and resistive loads to 100-5 standards



ORDERING INFORMATION

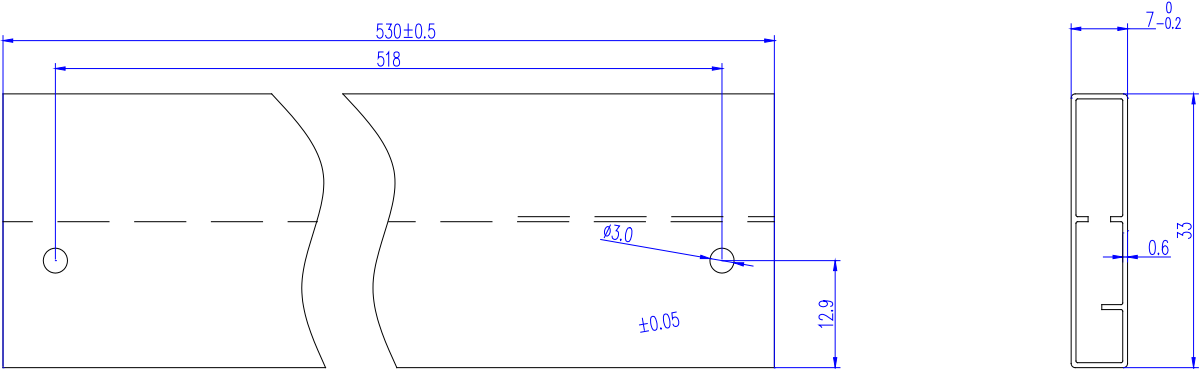


PACKAGE MECHANICAL DATA



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



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