

General Description

Glass passivated triacs in a plastic envelope, intended for use in applications requiring high bidirectional transient andblocking voltage capability and high thermal cycling performance.

Typical applications include motor control, industrial and domestic lighting , heating and static switching.

1. ANODE

2. ANODE

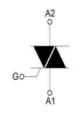
3. GATE



TO-252-2L

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BT151S-800R	TO-252-2L	Tape and Reel	2500



Maximum Ratings (Ta=25°C unless otherwise noted)

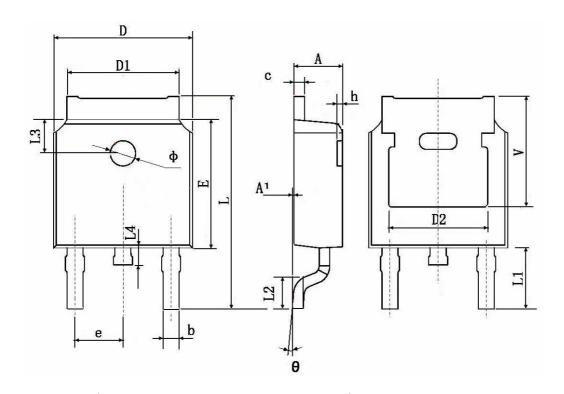
Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40~150	°C
Operating junction temperature range	Tj	-40~125	°C
Repetitive peak off-state voltage (T _j =25°C)	V_{DRM}	800	V
Repetitive peak reverse voltage (T _j =25°C)	V_{RRM}	800	V
RMS on-state current	I _{T(RMS)}	12	Α
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I _{TSM}	80	А

Electrical Characteristics (Ta=25°C unless otherwise specified)

Comple of	Took Condition	Value			1124
Symbol	Test Condition	Min	Тур	Max	Unit
I _{GT}	$V_{D}=12V, R_{L}=100\Omega$	-	5	10	mA
V_{GT}	VD-12V,11\L-10032	-	-	0.8	V
V_{GD}	$V_D=1/2V_{DRM}$	0.25	-	-	V
l _Η	$I_T=100$ mA $R_{GK}=1$ k Ω	-	-	30	mA
dV/dt	$V_D = 75\%V_{DRM} T_j = 110^{\circ}C R_{GK} = 1K\Omega$	20	-	-	V/µs
V_{TM}	I _T =12A	-	-	1.6	V
I _{DRM} I _{RRM}	$V_D=V_{DRM}=V_{RRM}$ $R_{GK}=1k\Omega$	-	-	0.1	mA



TO-252-2L Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches			
	Min.	Max.	Min.	Max.		
А	2.200	2.400	0.087	0.094		
A1	0.000	0.127	0.000	0.005		
b	0.660	0.860	0.026	0.034		
С	0.460	0.580	0.018	0.023		
D	6.500	6.700	0.256	0.264		
D1	5.100	5.460	0.201	0.215		
D2	0.483	0.483 TYP.		0.190 TYP.		
Е	6.000	6.200	0.236	0.244		
е	2.186	2.386	0.086	0.094		
L	9.800	10.400	0.386	0.409		
L1	2.900 TYP.		0.114 TYP.			
L2	1.400	1.700	0.055	0.067		
L3	1.600 TYP.		0.063 TYP.			
L4	0.600	1.000	0.024	0.039		
Ф	1.100	1.300	0.043	0.051		
θ	0°	8°	0°	8°		
h	0.000	0.300	0.000	0.012		
V	5.350 TYP.		0.211 TYP.			



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