



General Description

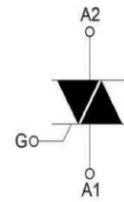
Glass passivated triacs in a plastic envelope, intended for use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance.

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



Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BT152-800	TO-252-2L	Tape and Reel	2500



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

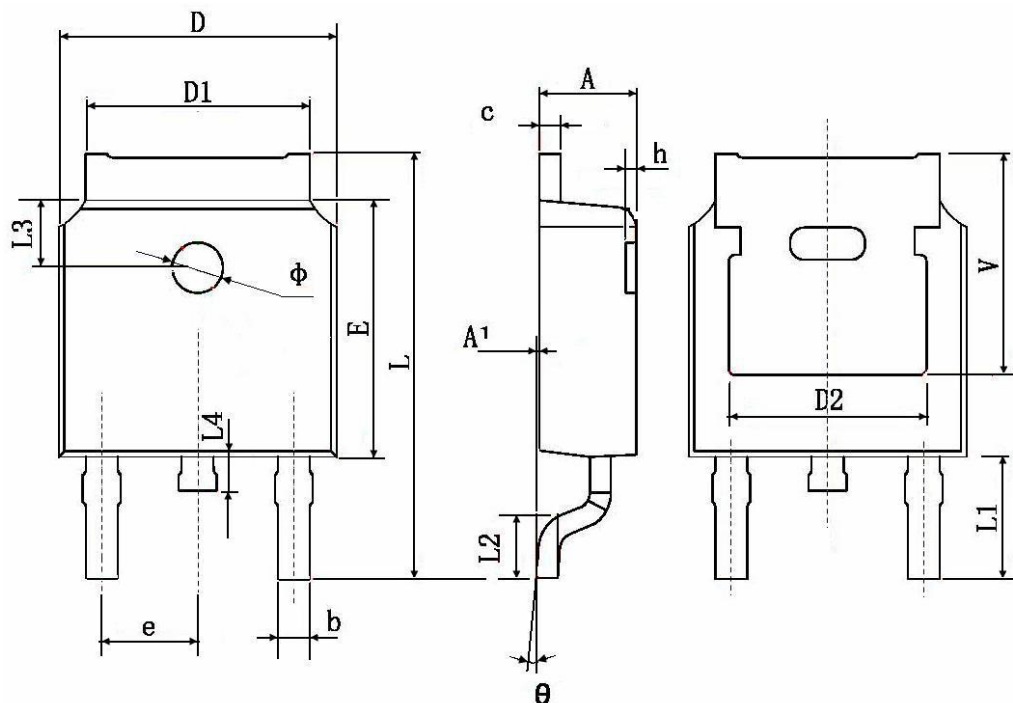
Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40~150	°C
Operating junction temperature range	T_j	-40~125	°C
Repetitive peak off-state voltage ($T_j=25^\circ\text{C}$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	800	V
RMS on-state current	$I_{T(RMS)}$	20	A
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I_{TSM}	160	A

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

Symbol	Test Condition	Value			Unit
		Min	Typ	Max	
I_{GT}	$V_D=12V, R_L=100\Omega$	-	-	20	mA
V_{GT}		-	-	1	V
V_{GD}	$V_D=1/2V_{DRM}$	0.25	-	-	V
I_H	$I_T=100mA, R_{GK}=1k\Omega$	-	-	40	mA
dV/dt	$V_D=75\%V_{DRM}, T_j=110^\circ\text{C}, R_{GK}=1K\Omega$	200	-	-	V/ μs
V_{TM}	$I_T=24A$	-	-	1.65	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.
A	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
c	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 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	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
Φ	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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