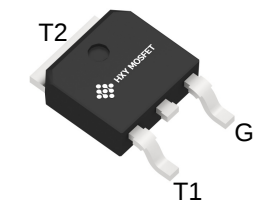




General Description

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.

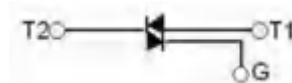
Typical applications include motor control, industrial and domestic lighting, heating and static switching.



TO-252-2L
(TO-252-2(DPAK))

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BT136S-600E	TO-252-2L (TO-252-2(DPAK))	BT136S	2500



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

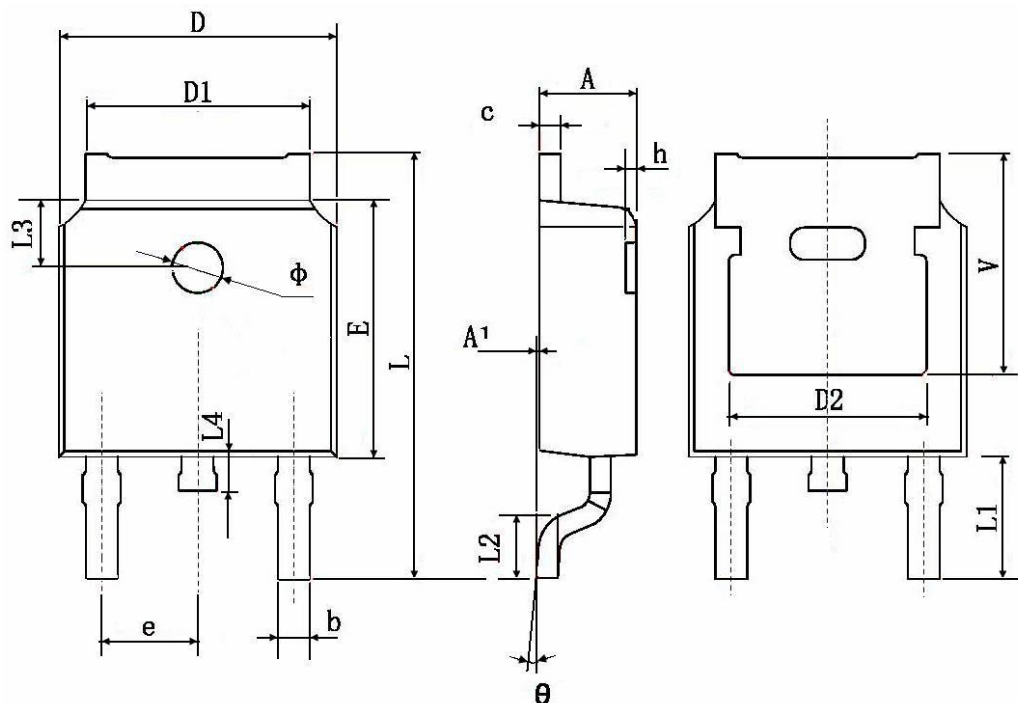
symbol	parameter	value	unit
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_C=107^{\circ}\text{C}$	3	A
I_{TSM}	Non repetitive surge peak on-state current (full sine wave, $T_j=25^{\circ}\text{C}$)	$t=20\text{ms}$ 25 $t=16.7\text{ms}$ 27	A
I_{GM}	Peak gate current	2	A
$P_{G(AV)}$	Average gate power dissipation $T_j=125^{\circ}\text{C}$	0.5	W
T_{stg}	Storage junction temperature range	-40 to +150	$^{\circ}\text{C}$
T_j	Operating junction temperature range	-40 to +125	$^{\circ}\text{C}$

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

Parameter		Symbol	Test conditions	Min	Max	Unit
Rated repetitive peak off-state/reverse voltage		V_{DRM}, V_{RRM}	$I_D=10\mu\text{A}$	600		V
Rated repetitive peak off-state current		I_{DRM}, I_{RRM}	$V_D=620\text{V}$		10	μA
On-state voltage		V_{TM}	$I_T=5\text{A}$		1.7	V
Gate trigger current	I	I_{GT}	$T_2(+), G(+)$	$V_D=12\text{V}$ $R_L=100\Omega$	10	mA
	II		$T_2(+), G(-)$		10	mA
	III		$T_2(-), G(-)$		10	mA
	IV		$T_2(-), G(+)$		-	mA
Gate trigger voltage	I	V_{GT}	$T_2(+), G(+)$	$V_D=12\text{V}$ $R_L=100\Omega$	1.45	V
	II		$T_2(+), G(-)$		1.45	V
	III		$T_2(-), G(-)$		1.45	V
	IV		$T_2(-), G(+)$		-	V
Holding current		I_H	$I_T=100\text{mA}$ $I_G=20\text{mA}$		20	mA



TO-252-2L(TO-252-2(DPAK)) 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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