

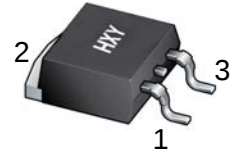


General Description

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.

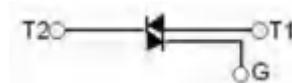
- 1. ANODE
- 2. ANODE
- 3. GATE



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

Package Marking and Ordering Information

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



Maxmim Ratings (Ta=25 unless otherwise noted)

symbol	parameter			value	unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	D ² PAK/TO-220	$T_C=107^{\circ}\text{C}$	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	A
			$t=16.7\text{ms}$	27	
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	

Electrcal Charcteristics (Ta=25 unless otherwise specified)

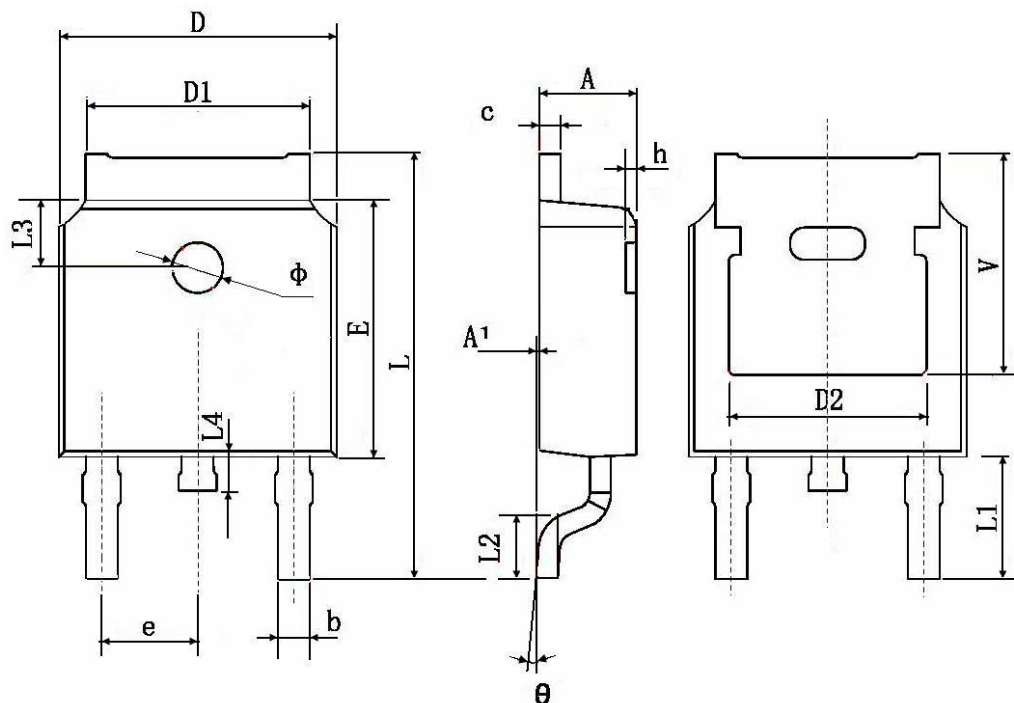
Parameter		Symbol	Test conditions		Min	Max	Unit
Rated repetitive peak off-state/reverse voltage		$V_{\text{DRM}}, V_{\text{RRM}}$	$I_{\text{D}}=10\mu\text{A}$		600		V
Rated repetitive peak off-state current		$I_{\text{DRM}}, I_{\text{RRM}}$	$V_{\text{D}}=620\text{V}$			10	μA
On-state voltage		V_{TM}	$I_{\text{T}}=5\text{A}$			1.7	V
Gate trigger current	I	I_{GT}	$T_2(+), G(+)$	$V_{\text{D}}=12\text{V}$ $R_{\text{L}}=100\Omega$		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}	$T_2(+), G(+)$	$V_{\text{D}}=12\text{V}$ $R_{\text{L}}=100\Omega$		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}	$I_{\text{T}}=100\text{mA}$ $I_{\text{G}}=20\text{mA}$			20	mA



BT136S

Plastic-Encapsulate Thyristors

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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