



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

Package Marking and Ordering Information

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



Maxmim Ratings (Ta=25 unless otherwise noted)

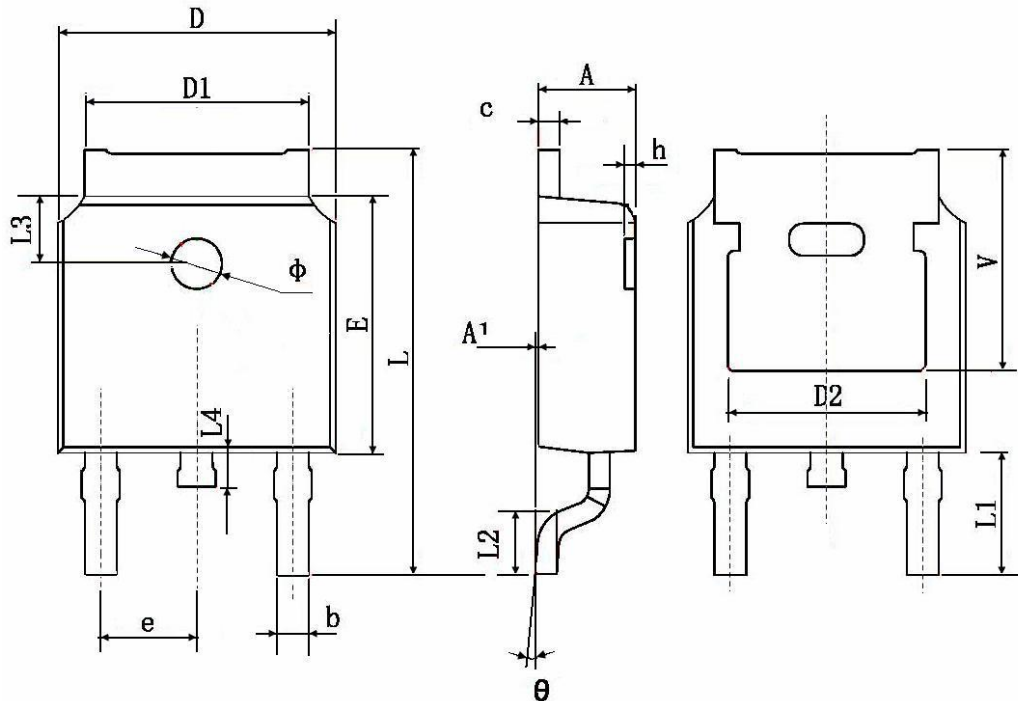
symbol	parameter			value	unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	D ² PAK/TO-220	T _C =107°C	3	A
I_{TSM}	Non repetitive surge peak on-state current (full sine wave, T _j =25°C)		t=20ms	25	A
			t=16.7ms	27	
I_{GM}	Peak gate current			2	A
$P_{G(AV)}$	Average gate power dissipation		T _j =125°C	0.5	W
T _{stg}	Storage junction temperature range			-40 to +150	°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_{DRM}, V_{RRM}	$I_D=10\mu A$	600		V
Rated repetitive peak off-state current		I_{DRM}, I_{RRM}	$V_D=620V$		10	μA
On-state voltage		V_{TM}	$I_T=5A$		1.7	V
Gate trigger current	I	I_{GT}	T ₂ (+), G(+)	$V_D=12V$ $R_L=100\Omega$	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(+)	$V_D=12V$ $R_L=100\Omega$	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	$I_T=100mA$ $I_G=20mA$		20	mA



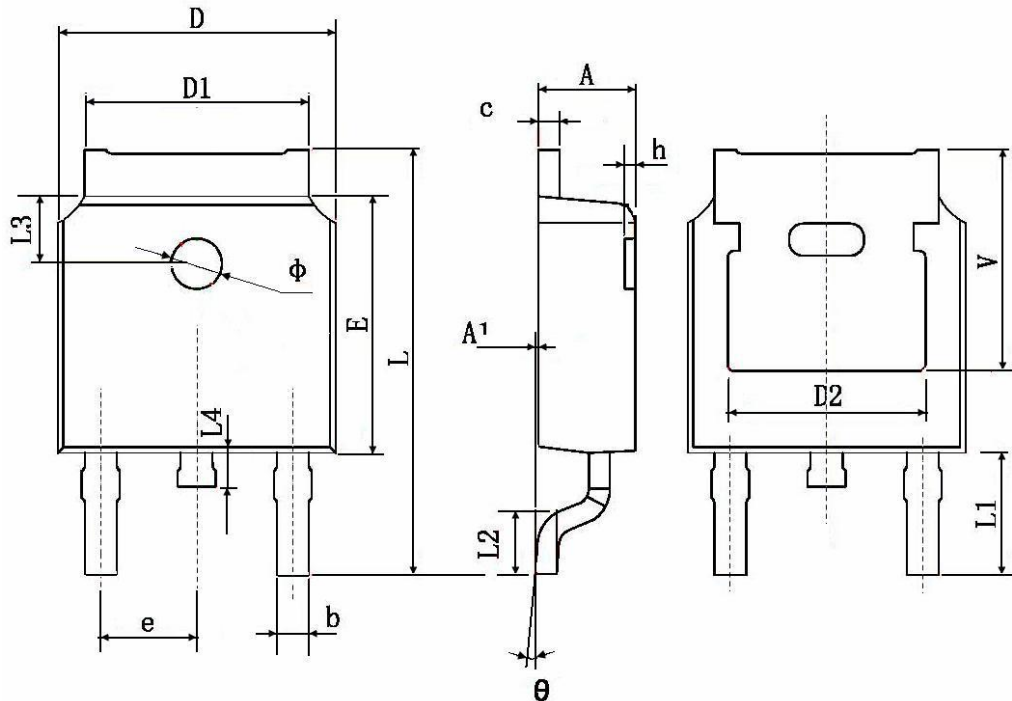
TO-252-2L Package Information



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
phi	1.100	1.300	0.043	0.051
theta	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	



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.	

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Triacs](#) category:

Click to view products by [HXY MOS](#) manufacturer:

Other Similar products are found below :

[BT137-600-0Q](#) [2N6075A](#) [NTE5688](#) [D31410](#) [ACS102-5T1](#) [ACS102-5TA](#) [MAC97A4G](#) [Z0107MAG](#) [Z0107MARL1G](#) [Z0109MARLRPG](#)
[BTA316-800ET,127](#) [BTA316-800CTQ](#) [ACTT8X-800CTNQ](#) [MCR22-6G](#) [BTA16-800B\(MS\)](#) [TYN1025RG-JSM](#) [BT138-600D](#) [BTA26-800BRG](#) [BT138-600E](#) [BTA24-600CWRG](#) [BTA16-800CWRG](#) [BT138-600E](#) [BTA08-800CW](#) [BTB24-800CW](#) [BTA16-800CW](#) [BTA16-600CW](#) [BT169](#) [MCR100-6U](#) [FT10050-12P](#) [BT136-800E](#) [BT136S](#) [PCR606J](#) [CT404D-800S](#) [JST24A-800CW](#) [JST60IS-1600BW](#)
[TYN810RG-JSM](#) [BT139B-600E-JSM](#) [TYN812RG-JSM](#) [BTB16-800BRG-JSM](#) [BTA20-800CRG TO-220](#) [BTA16-800BRG](#) [BTW69-1200RG](#)
[TYN825RG-JSM](#) [BTA12-600CRG](#) [BT136-600E](#) [BTA12-600BRG](#) [BT139-600E](#) [BTA24-800CRG TO-220](#) [BTA16-800BWRG](#) [BTA26-600BWRG](#)