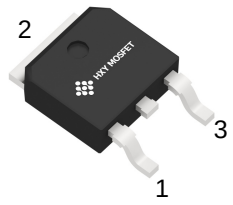
General Description

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
(TO-252-2(DPAK))

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BT137S-600E	TO-252-2L (TO-252-2(DPAK))	BT137S	2500

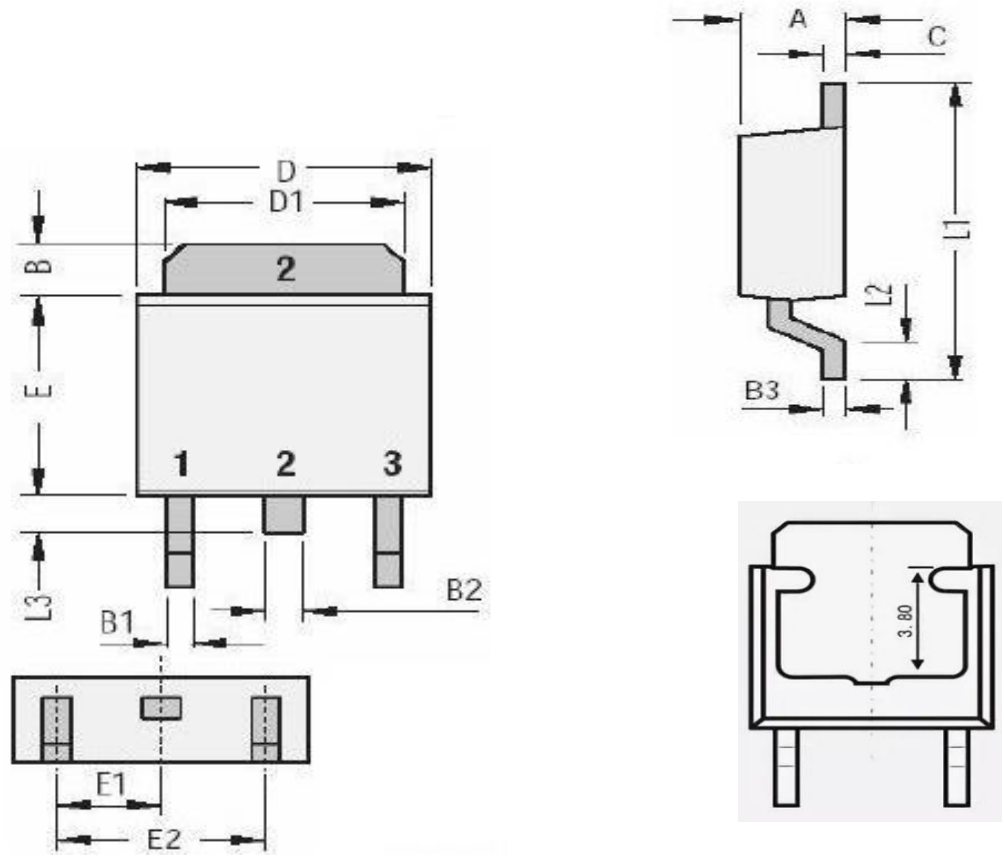
Maximum Ratings (Ta=25℃ unless otherwise noted)

symbol	parameter		value	unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	T_C=107℃	3	A
I_{TSM}	Non repetitive surge peak on-state current (full sine wave, Tj =25℃)	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℃	0.5	W
T_{stg} T_j	Storage junction temperature range Operating junction temperature range		-40 to +150 -40 to +125	℃

Electrical Characteristics(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=10μA		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=100Ω		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=100Ω		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(TO-252-2(DPAK)) Package Information



All Dimensions are in mm

Symbol	Min	Max
A	2.2	2.4
B	1.4	1.7
B1	0.58	0.7
B2	0.75	0.85
B3	0.46	0.58
C	0.48	0.52
D	6.3	6.6
D1	5.25	5.5
E	5.35	5.5
E1	2.25	2.35
E2	4.5	4.7
L1	9.5	10
L2	1.2	1.6
L3	0.6	0.8

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