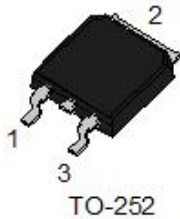




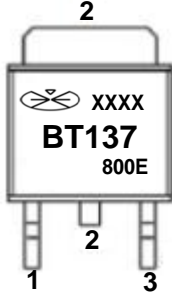
**MAIN FEATURES**

Symbol	value	unit
$I_{T(RMS)}$	8	A
$V_{DRM}/V_{RRM}$	800	V
$I_{TSM}$	40	A

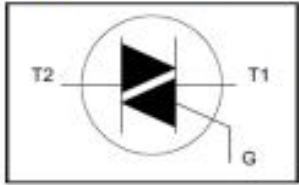
**Package**



TO-252



PIN1:T1  
PIN2:T2  
PIN3:G



**Package Marking and Ordering Information**

Product ID	PACK	Qty (pcs)
BT137	TO-252	2500

**ABSOLUTE MAXIMUM RATINGS(Ta=25°C unless otherwise noted)**

Symbol	Parameter	Value	Unit
		800E	
$V_{DRM}/V_{RRM}$	Repetitive peak off-state voltage	800	V
$I_{T(RMS)}$	RMS on-state current(full sine wave)	8	A
$I_{TSM}$	Non repetitive surge peak on-state current(full sine wave,Tj=25°C)	t=20ms	40
		t=16.7ms	42
$I_{GM}$	Peak gate current	1	A
$I^2t$	$I^2t$ for fusing	t=10ms	8
$P_{G(AV)}$	Average gate Power Dissipation	Tj=125°C	0.1
$P_{GM}$	Peak gate Power		5.0
$Di/dt$	Repetitive rate of rise of on-state current after triggering		40
$T_j$	Junction Temperature		-40 to 125
$T_{stg}$	Storage Temperature		-40 to 150
$R\theta_{JA}$	Thermal Resistance From Junction To Ambient		70

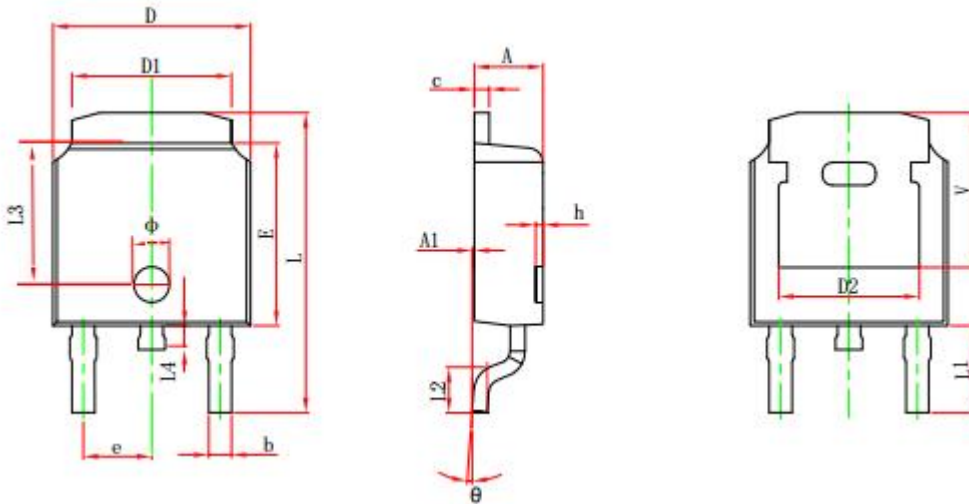


**ELECTEICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
IV Quadrant						
<b>Gate trigger current</b>	IGT	VD=12V;RL=100Ω	I II III		35	mA
			IV		80	
<b>Gate trigger voltage</b>	VGT	VD=12V;RL=100Ω	I II III		1.5	V
			IV			
<b>Non-triggering gate voltage</b>	VGD	Tj=125°C	I II III	0.2		V
			IV			
<b>Holding current</b>	IH	IT=0.5A			60	mA
<b>Thyristor holds up current</b>	IL	IG=1.2IGT			20	mA
					100	
<b>Critical rise rate of off-state voltage</b>	dV/dt	VD=67%VDRM(max);Tj=125°C	500			V/μs

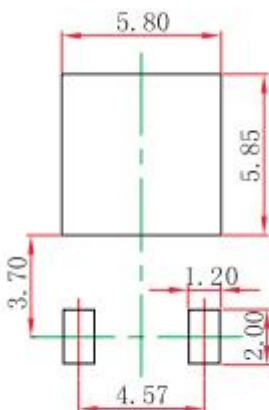


**TO-252-2L Package Outline Dimensions**



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	0.635	0.770	0.025	0.030
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	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.712	10.312	0.382	0.406
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	4.460 REF.		0.1756 REF.	
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	5.250 REF.		0.207 REF.	

**TO-252-2L Suggested Pad Layout**



- Note:
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.05$ mm.
  3. The pad layout is for reference purposes only.

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