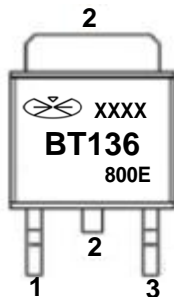
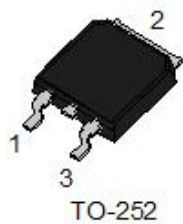




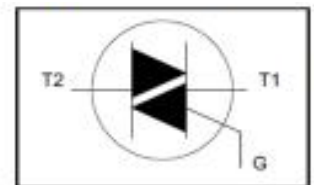
MAIN FEATURES

Symbol	value	unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	600 800	V
I_{TSM}	25	A

Package



PIN1:T1
PIN2:T2
PIN3:G



Package Marking and Ordering Information

Product ID	PACK	Qty (pcs)
BT136	TO-252	2500

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value		Unit	
		600E	800E		
V_{DRM}	Repetitive peak off-state voltage	600	800	V	
$I_{T(RMS)}$	RMS on-state current(full sine wave)	4		A	
I_{TSM}	Non repetitive surge peak on-state current(full sine wave, $T_j=25^{\circ}\text{C}$)	t=20ms	25	A	
		t=16.7ms	27		
I_{GM}	Peak gate current	2		A	
I^2t	I^2t for fusing	t=10ms	3.1	A ² S	
V_{GM}	Peak gate voltage	5.0		V	
$P_{G(AV)}$	Average gate Power Dissipation	$T_j=125^{\circ}\text{C}$		0.5	W
P_{GM}	Peak gate Power			5.0	W
di/dt	Repetitive rate of rise of on-state current after triggering	T_2+G+		50	A/ μs
T_j	Junction Temperature			125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature			-40 to 150	$^{\circ}\text{C}$
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient			60	K/W

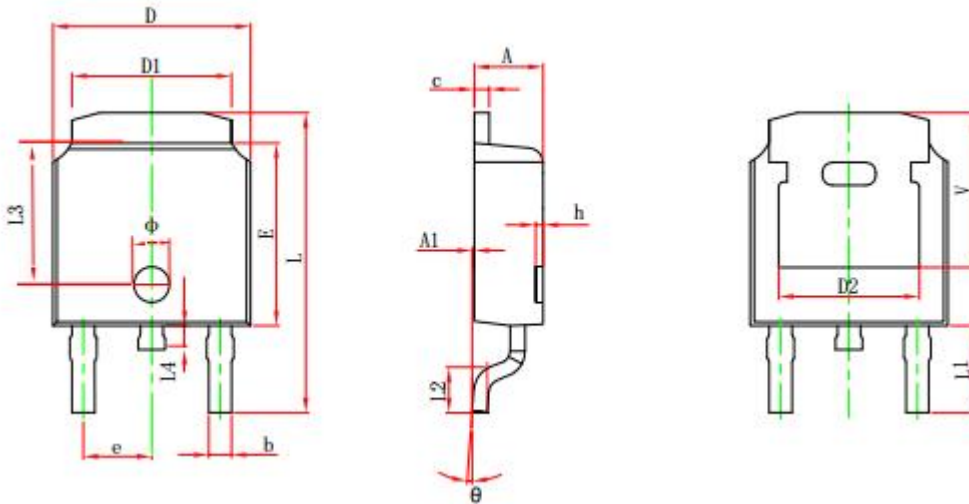


ELECTEICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Gate trigger current	IGT	VD=12V; IT=0.1A	T2+G+		5	50	mA
			T2+G-		8	50	
			T2-G-		11	50	
			T2-G+		30	100	
Latching current	IL	VD=12V; IGT=0.1A	T2+G+		7	30	mA
			T2+G-		16	45	
			T2-G-		5	30	
			T2-G+		7	45	
Holding current	IH	VD=12V;IGT=0.1A		5.0	30	mA	
On-state voltage	VT	IT=5.0A		1.4	1.7	V	
Gate trigger voltage	VGT	VD=12V;IT=0.1A	0.25	0.7	1.5	V	
		VD=400V;IT=0.1A; Tj=125°C		0.4			
Off-state leakage current	ID	VD=VDRM(max);Tj=125°C		0.1	0.5	mA	
Repetitive peak off-state current	dVD/dt	VD=67%VDRM(max)gate open;Tj=125°C	10	50		μs	
Critical rate of rise of off-state current	tgt	ITM=6A,VD=VDRM(max), IG=0.1A,dIg/dt=5A/μs		2.0		V/μs	

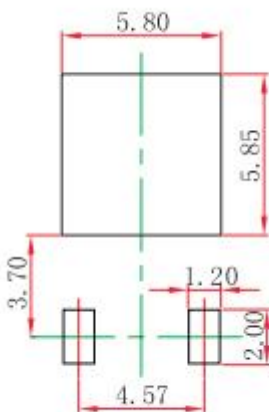


TO-252-2L Package Outline Dimensions



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: ± 0.05 mm.
 3. The pad layout is for reference purposes only.