



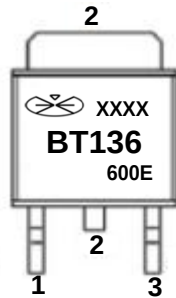
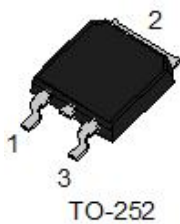
BT136 600E

4A Triac

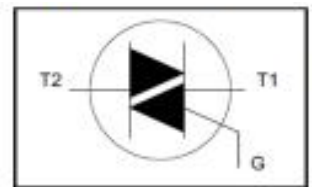
MAIN FEATURES

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 600E	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℃)	t=20ms	25		A
		t=16.7ms	27		
I _{GM}	Peak gate current		2		A
I ² t	I ² t 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℃	0.5		W
P _{GM}	Peak gate Power		5.0		W
Di/dt	Repetitive rate of rise of on-state current after triggering	T2+G+	50		A/μs
T _j	Junction Temperature		125		℃
T _{stg}	Storage Temperature		-40 to 150		℃
RθJA	Thermal Resistance From Junction To Ambient		60		K/W



BT136 600E

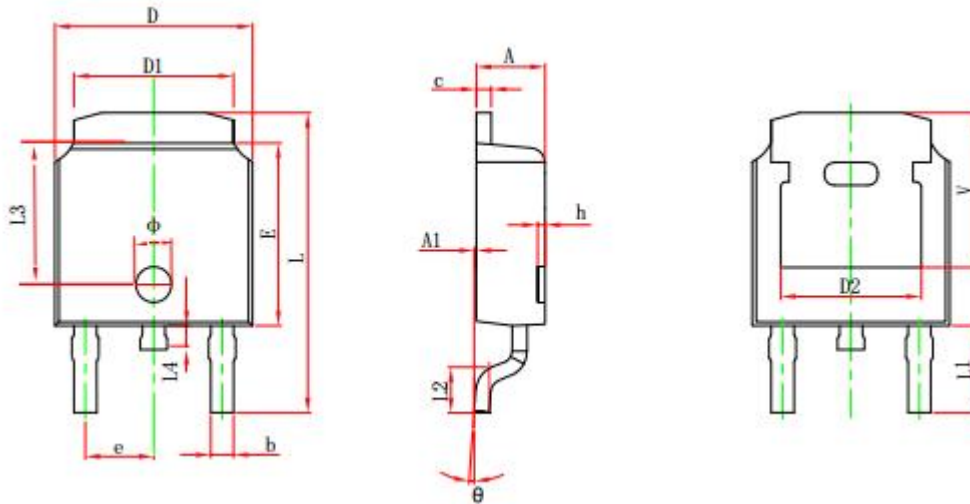
4A Triac

ELECTEICAL CHARACTERISTICS(Ta=25℃ 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℃			0.4		
Off-state leakage current	ID	VD=VDRM(max);Tj=125℃			0.1	0.5	mA
Repetitive peak off-state current	dVD/dt	VD=67%VDRM(max)gate open;Tj=125℃		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

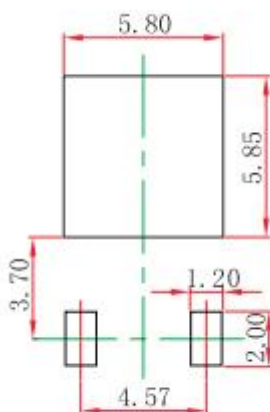
**BT136 600E****4A Triac**

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
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.250 REF.		0.207 REF.	

TO-252-2L Suggested Pad Layout



Note:

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