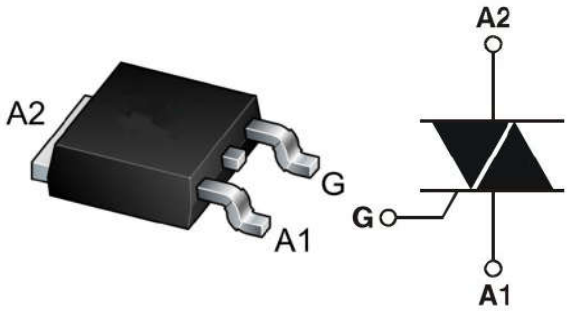
4.0A 4Quadrants TRIACs

Product Summary

Symbol	Value	Unit
$I_{T(RMS)}$	4.0	A
V_{DRM} V_{RRM}	600/800	V
V_{TM}	1.55	V

Circuit diagram



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Features

With high ability to withstand the shock loading of large current,With high commutation performances, 4 quadrants products especially recommended for use on inductive load.

Application

Washing machine, vacuums, massager, solid state relay, AC Motor speed regulation and so on.

Order Information

Part Number	Package	Marking	Delivery Form	Delivery Quantity
BT136D	TO-252	BT136 600E XXXX	12" T&R	3000PCS/Tape

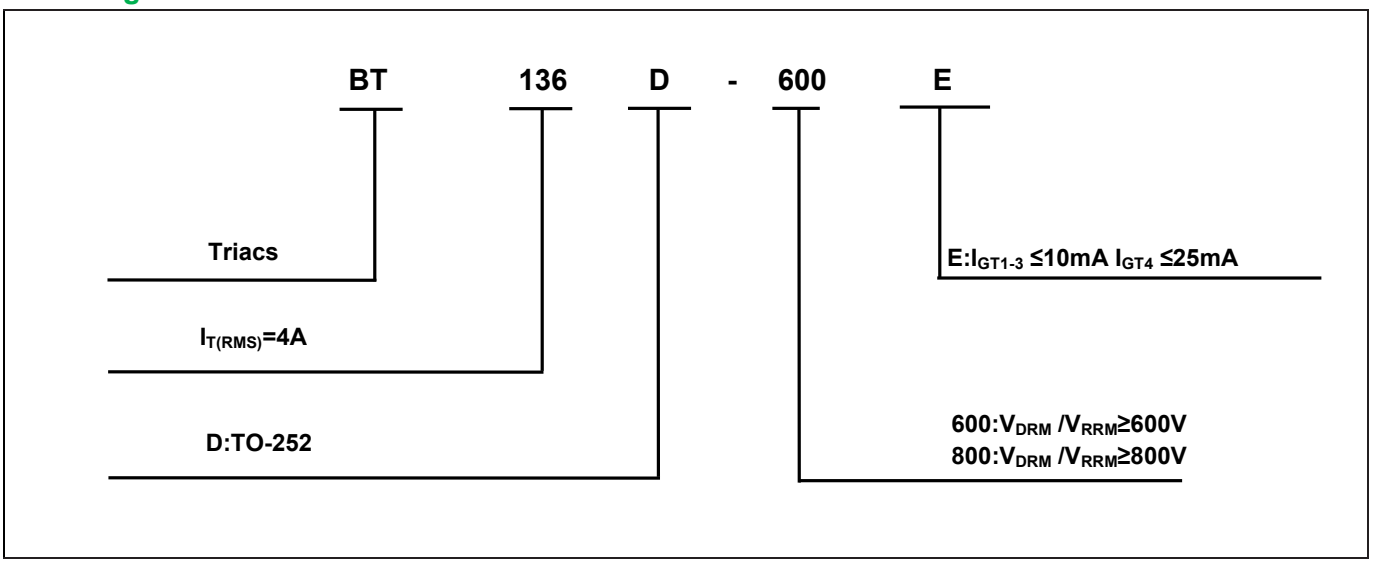
Absolute maximum ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value		Unit
Repetitive peak off-state voltage	V_{DRM}	600/800		V
Repetitive peak reverse voltage	V_{RRM}	600/800		V
RMS on-state current	$I_{T(RMS)}$	4		A
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I_{TSM}	25		A
I^2t value for fusing (tp=10ms)	I^2t	3.1		A^2s
Critical rate of rise of on-state current (I_G =2 x I_{GT})	dI/dt	I - II -III	50	A
		IV	10	A/μs
Peak gate current	I_{GM}	2		A
Average gate power dissipation	$P_{G(AV)}$	0.5		W
Junction Temperature	T_J	-40~+125		°C
Storage Temperature	T_{STG}	-40 ~+150		°C

Electrical characteristics (T_A=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition		Value		Unit
				Min	Max	
Gate trigger current	I_{GT}	V_D =12V I_T=0.1A Tj=25°C	Ⅰ-Ⅱ-Ⅲ	-	10	mA
			Ⅳ	-	25	
Gate trigger voltage	V_{GT}		Ⅰ-Ⅱ-Ⅲ-Ⅳ	-	1.3	V
Gate non-trigger voltage	V_{GD}	V_D =V_{DRM} Tj=125°C		0.2	-	V
latching current	I_L	V_D =12V I_{GT}=0.1A Tj=25°C	Ⅰ-Ⅲ-Ⅳ	-	15	mA
			Ⅱ	-	20	
Holding current	I_H		Ⅰ-Ⅱ-Ⅲ-Ⅳ	-	15	mA
Critical-rate of rise of commutation voltage	dV_D/dt	V_D=2/3V_{DRM} Gate Open Tj=125°C		20	-	V/us
STATIC CHARACTERISTICS						
Forward "on" voltage	V_{TM}	ITM =6A tp=380μs		-	1.55	V
Repetitive Peak Off-State Current	I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25°C	-	5	UA
Repetitive Peak Reverse Current	I_{RRM}		T_j=125°C	-	500	UA
THERMAL RESISTANCES						
Thermal resistance	Rth(j-c)	Junction to case(AC)		TYP.	3	°C/W
	Rth(j-a)	Junction to ambient		TYP.	70	°C/W

Ordering Information



Typical Characteristics

FIG.1: Maximum power dissipation versus RMS on-state current (full cycle)

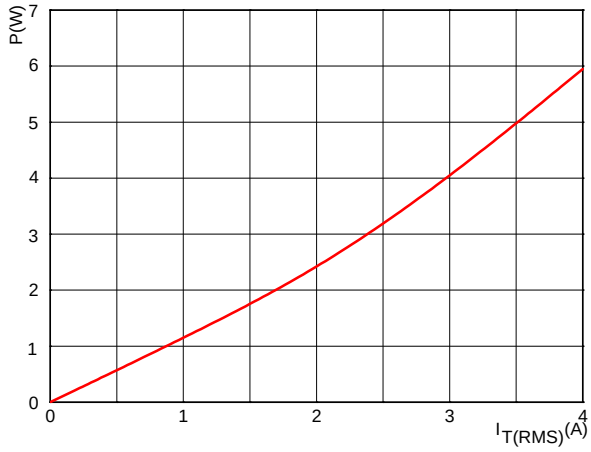


FIG.2: RMS on-state current versus case temperature (full cycle)

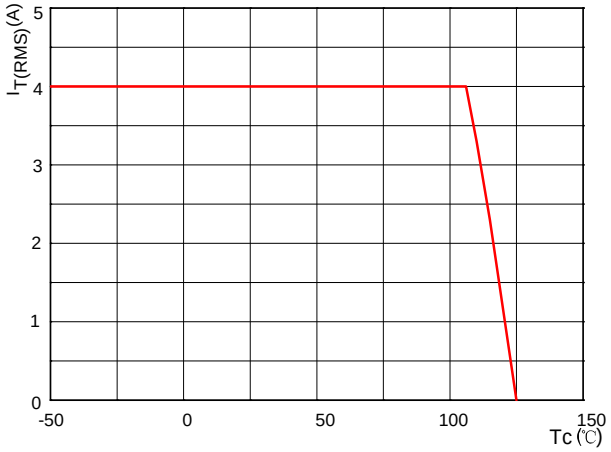


FIG.3: Surge peak on-state current versus number of cycles

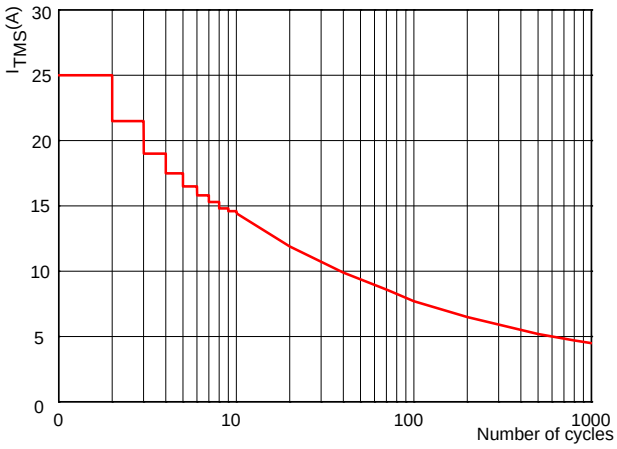


FIG.4: On-state characteristics (maximum values)

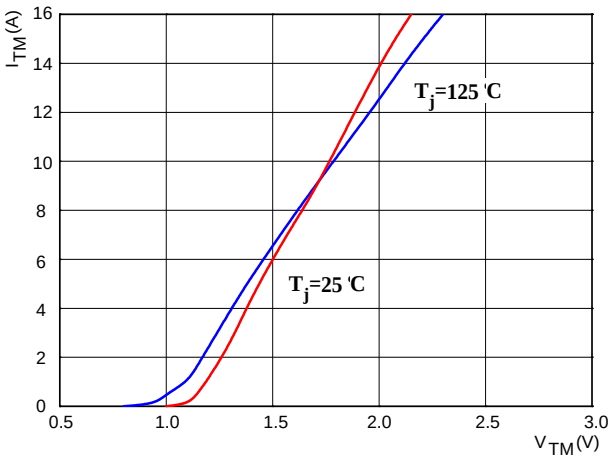


FIG.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp < 10ms

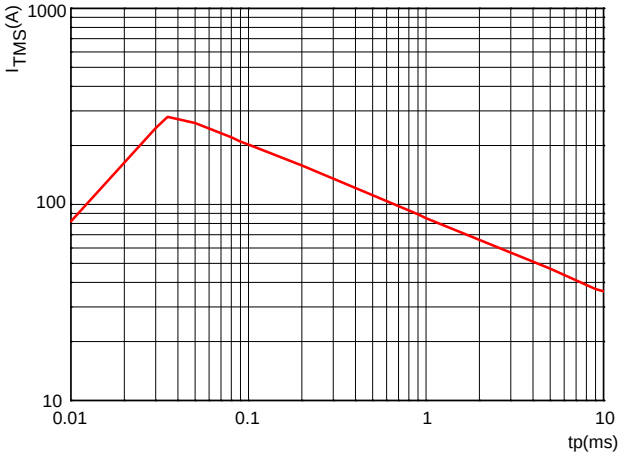
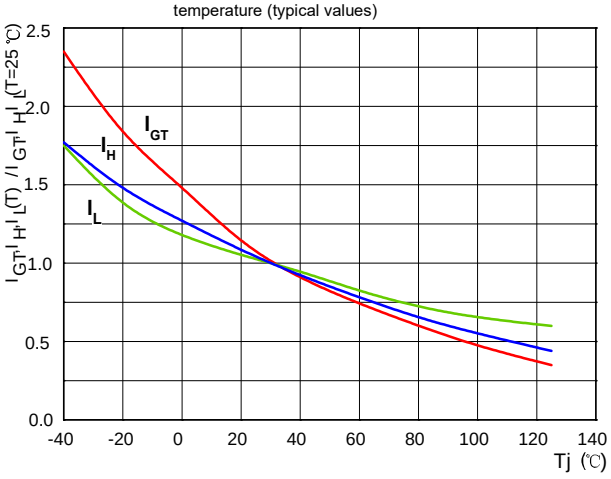


FIG.6: Relative variations of gate trigger current, holding current and latching current versus junction temperature (typical values)



Package Information

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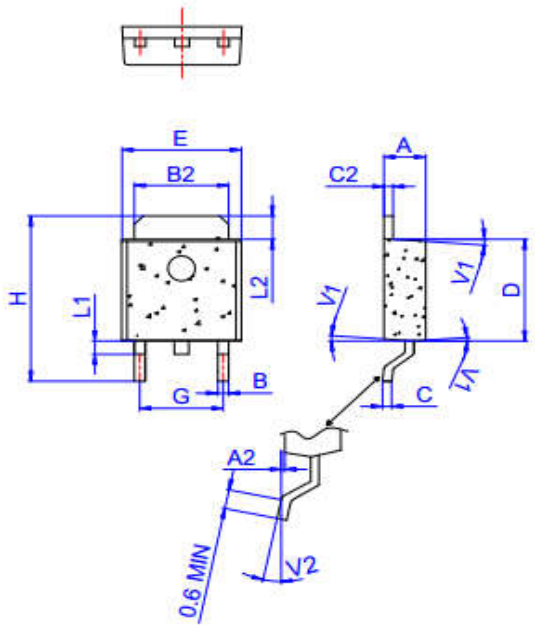

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.20		2.40	0.086		0.095
A2	0.03		0.23	0.001		0.009
B	0.55		0.65	0.022		0.026
B2	5.10		5.40	0.200		0.213
C	0.45		0.62	0.018		0.024
C2	0.48		0.85	0.019		0.034
D	5.30		6.20	0.208		0.244
E	6.40		6.70	0.252		0.264
G	4.40		4.70	0.173		0.185
H	9.35		10.6	0.368		0.417
L1	1.30		1.70	0.051		0.067
L2	1.37		1.50	0.054		0.059
V1		4°			4°	
V2	0°		8°	0°		8°

单击下面可查看定价，库存，交付和生命周期等信息

>>YFW(佑风微)