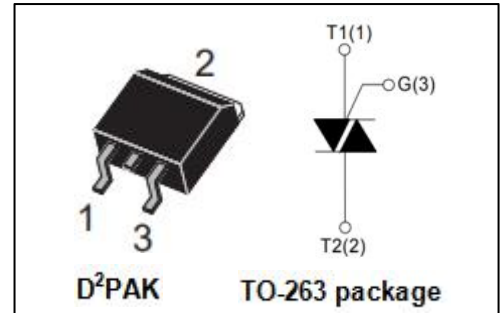


**isc Triacs**
**BT137B-600E**
**DESCRIPTION**

- With TO-263( D<sup>2</sup>PAK ) packaging
- Operating in 4 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Switching applications
- Phase control
- Static switching on inductive or resistive load


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER		MAX	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage		600	V
V <sub>RRM</sub>	Repetitive peak reverse voltage		600	V
I <sub>T(RSM)</sub>	Average on-state current		8	A
I <sub>TSM</sub>	Surge non-repetitive on-state current	50HZ 60HZ	65 71	A
P <sub>G(AV)</sub>	Average gate power dissipation ( over any 20 ms period )		0.5	W
T <sub>j</sub>	Operating junction temperature		-40~125	°C
T <sub>stg</sub>	Storage temperature		-40~150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated; V <sub>D</sub> =V <sub>DRM</sub> Rated;	T <sub>j</sub> =125°C		0.5	mA
I <sub>DRM</sub>	Repetitive peak off-state current					
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> =10A			1.65	V
I <sub>GT</sub>	Gate-trigger current	V <sub>D</sub> =12V;I <sub>T</sub> =0.1A;		I	10	mA
				II	10	
				III	10	
				IV	25	
V <sub>GT</sub>	Gate-trigger voltage	V <sub>D</sub> =12V;I <sub>T</sub> =0.1A;			1	V
R <sub>th (j-mb)</sub>	Junction to mounting base	Half cycle			2.4	°C/W

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