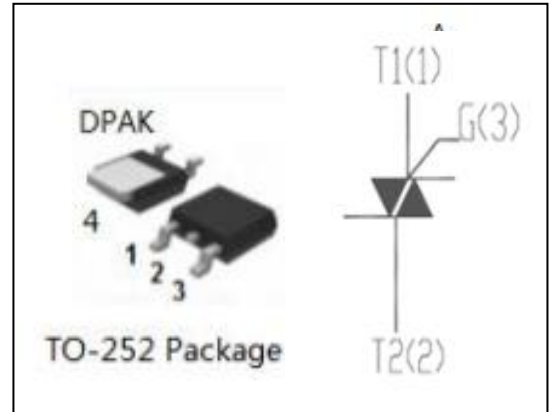


**isc Thyristors**
**BT137S-600D**
**DESCRIPTION**

- With TO-252( DPAK ) 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 ( $T_c=25^\circ\text{C}$  unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_R=V_{RRM}$ Rated; $V_D=V_{DRM}$ Rated;	$T_j=125^\circ\text{C}$		0.5	mA
$I_{DRM}$	Repetitive peak off-state current					
$V_{TM}$	On-state voltage	$I_T=10\text{A}$			1.65	V
$I_{GT}$	Gate-trigger current	$V_D=12\text{V}; I_T=0.1\text{A};$	I		35	mA
			II		35	
			III		35	
			IV		70	
$V_{GT}$	Gate-trigger voltage	$V_D=12\text{V}; I_T=0.1\text{A};$			1.5	V
$R_{th(j-mb)}$	Junction to mounting base	Half cycle			2.4	$^\circ\text{C/W}$

**NOTICE:**

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