

isc Thyristors

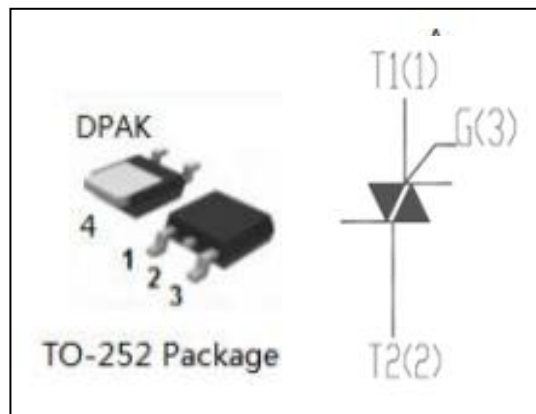
BT137S-600

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($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER		MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage		600	V
V_{RRM}	Repetitive peak reverse voltage		600	V
$I_{\text{T(RSM)}}$	Average on-state current		8	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	65 71	A
$P_{\text{G(AV)}}$	Average gate power dissipation (over any 20 ms period)		0.5	W
T_j	Operating junction temperature		-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-40~150	$^{\circ}\text{C}$

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°C		0.5	mA
I _{DRM}	Repetitive peak off-state current					
V _{TM}	On-state voltage	I _T =10A			1.65	V
I _{GT}	Gate-trigger current	V _D =12V; I _T =0.1A;	I		35	mA
			II		35	
			III		35	
			IV		70	
V _{GT}	Gate-trigger voltage	V _D =12V; I _T =0.1A;			1.5	V
R _{th} (j-mb)	Junction to mounting base	Half cycle			2.4	°C/W

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