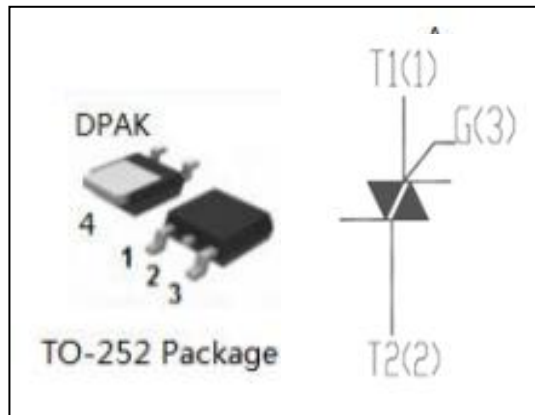


isc Thyristors
BT137S-600E
DESCRIPTION

- 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°C)

SYMBOL	PARAMETER	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RSM)}	Average on-state current	8	A
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ 65 71	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~125	°C
T _{stg}	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	10	mA
				II	10	
				III	10	
				IV	25	
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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