

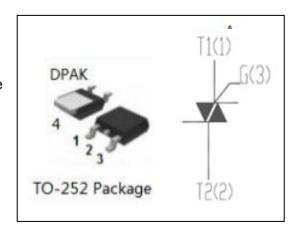
isc Thyristors BT137S-800E

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(Ta=25°C)

SYMBOL	PARAMETER	MAX	UNIT	
V_{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current			Α
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	65 71	Α
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			$^{\circ}\!\mathbb{C}$
T _{stg}	Storage temperature			$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	=V _{RRM} Rated;			0.5	mA
I _{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; $T_j = 12$		C			
V_{TM}	On-state voltage	I _T =10A				1.65	V
lgt	Gate-trigger current			I		10	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		II		10	^
		V _D =12V;I _T =0.1A;		III		10	mA
				IV		20	
V_{GT}	Gate-trigger voltage	$V_D = 12V; I_T = 0.1A;$			·	1.5	V
Rth (j-mb)	Junction to mounting base	Half cycle				2.4	°C/W



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