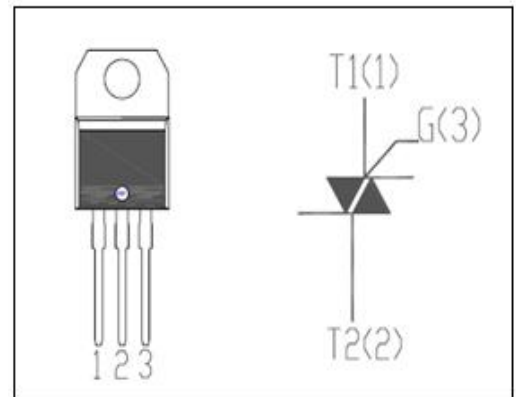


isc Thyristors
BT136-800E
DESCRIPTION

- With TO-220 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	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RSM)}	Average on-state current	4	A
I _{TSM}	Surge non-repetitive on-state current	25 27	A
		50HZ 60HZ	
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°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 =5A			1.7	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			3.7	°C/W

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