

isc Thyristors

INCHANGE SEMICONDUCTOR

BT139-800G

DESCRIPTION

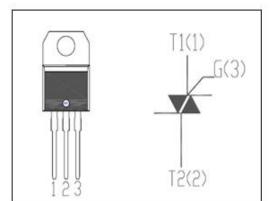
- With TO-220 packaging
- Operating in 4 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Phase control
- · Static switching on inductive or resistive load

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER			UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current			А
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	140 150	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			Ĉ
T _{stg}	Storage temperature			°C





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SYMBOL	PARAMETER	CONDITIONS			MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;				_	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃			0.5	mA
V_{TM}	On-state voltage	I _T =20A				1.6	V
Іст	Gate-trigger current			Ι		50	mA
			II			50	
				III		50	
				IV		100	
V _{GT}	Gate-trigger voltage	V _D =12V;I _T =0.1A;				1.5	V
Rth (j-mb)	Junction to mounting base	Half cycle				1.7	℃/W

ELECTRICAL CHARACTERISTICS (Tc=25 °C unless otherwise specified)

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