

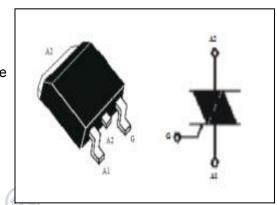
isc Thyristors BTA316B-800C

DESCRIPTION

- With TO-263(D2PAK) 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	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RSM)}	Average on-state current	16	Α
I _{TSM}	Surge non-repetitive on-state current 50HZ 60HZ	140 160	Α
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	T: 450°C			0.5	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;		Tj=150℃		8.5	mA
V_{TM}	On-state voltage	I _T =18A				1.5	V
I _{GT}	Gate-trigger current			I		35	mA
		V _D =12V;I _T =0.1A		II		35	
				III		35	
				IV		70	
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	°C/W

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