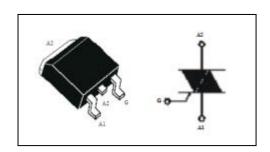


isc Thyristors BTA316B-600C

APPLICATIONS

- With TO-263 package.
- Be suitable for general purpose AC switching, they can be used as an ON/OFF function in applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER		UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RMS)}	RMS on-state current full sine wave; T _{mb} ≤101°C	16	Α
I _{TSM}	Surge non-repetitive on-state current t=20ms t=16.7ms	140 150	А
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$



isc Thyristors

BTA316B-600C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM}	T _j =125℃		0.5	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM}	T _j =125℃		0.5	mA
V_{TM}	On-state voltage	I _{TM} = 18A			1.5	V
I _{GT}	Gate-trigger current Quadrant (I - II - III)	$V_D = 12 \text{ V;}I_T = 0.1\text{A}$			35	mA
V _{GT}	Gate-trigger voltage Quadrant (I - II - III)	V _D = 12 V;I _T =0.1A			1.5	V
R _{th(j-mb)}	Thermal resistance	Half cycle Full cycle			1.7 1.2	°C/W

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