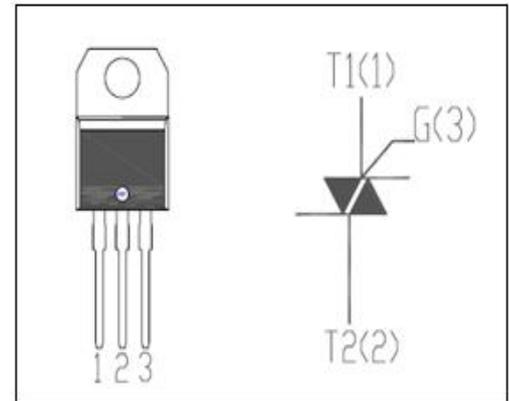


isc Thyristors
BTB06-600C
DESCRIPTION

- With TO-220 packaging
- Can be operated in 4 quadrants
- Advanced technology to provide customers with high commutation performances
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RSM)}	RSM on-state current T _c =110°C	6	A
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ 60 63	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) @ T _c =125°C	1	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 =25°C T _j =125°C		5	μ A
I _{DRM}	Repetitive peak off-state current					
V _{TM}	On-state voltage	I _T =5.5A; t _p =380 μ s			1.55	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =30Ω;		I	25	mA
				II	25	
				III	25	
				IV	50	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =30Ω;			1.3	V
R _{th} (j-c)	Junction to case				1.8	°C/W

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