

isc Thyristors BTB08-600C

DESCRIPTION

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

T1(1) G(3) T2(2)

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER		MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current @Tc=110℃			А
I _{TSM}	Surge non-repetitive on-state current 50Hz 60Hz		80 84	А
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)			W
T _j	Operating junction temperature		-40~125	${\mathbb C}$
T _{stg}	Storage temperature		-40~150	${\mathbb C}$



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25℃ Tj=125℃			5	μ Α
I_{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;				1	mA
V_{TM}	On-state voltage	I _T =11A;t _P =380 μ s				1.55	V
I _{GT}	Gate-trigger current			I		25	
		V _D =12V;R _L =33 Ω		II		25	mA
				III		25	
				IV		50	
V_{GT}	Gate-trigger voltage	$V_D = 12V; R_L = 33 \Omega$				1.3	V
Rth (j-c)	Junction to case	For AC				1.6	°C/W

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