

isc Thyristors

INCHANGE SEMICONDUCTOR

BTA330X-800BT

T1(1)

T2(2)

(3)

DESCRIPTION

- With TO-3PN packaging
- Can be operated in 3 quadrants
- High voltage capability; high current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Applications subject to high temperature
- Heating controls; high power motor control
- High power switching

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)}	RSM average on-state current Tc=44 °C			A
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	270 297	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) @ Tc=125 $^{\circ}$ C			W
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			°C



SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT	
I _{RRM}	Repetitive peak reverse current	, ,		Tj=25℃ Tj=125℃		5	μ Α
Idrm	Repetitive peak off-state current					3	mA
V _{TM}	On-state voltage	I _T =42A;t _P =380 μ s				1.55	V
I _{GT}	Gate-trigger current			Ι		50	
		V _D =12V;I _T =0.1A;		II		50	mA
				III		50	
V _{GT}	Gate-trigger voltage	V _D =12V;I _T =0.1A;				1.3	V
Rth(j-c)	Junction to case					2.8	°C/W

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

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