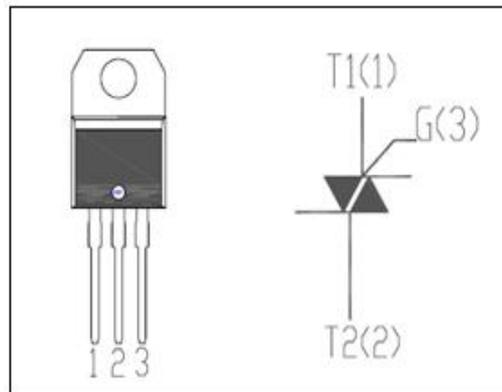


isc Thyristors
BTA20-600B
DESCRIPTION

- With TO-220 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(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)}	Average on-state current T _c =70°C	20	A
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ 200 210	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) T _j =125°C	1	W
T _j	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

isc Thyristors
BTA20-600B
ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$ 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;	$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$		10	μA
I_{DRM}	Repetitive peak off-state current					
V_{TM}	On-state voltage	$I_T=28\text{A}; t_p=380\ \mu\text{s}$			1.7	V
I_{GT}	Gate-trigger current	$V_D=12\text{V}; R_L=33\Omega;$	I		50	mA
			II		50	
			III		50	
			IV		100	
V_{GT}	Gate-trigger voltage	$V_D=12\text{V}; R_L=33\Omega;$			1.5	V
$R_{th(j-c)}$	Junction to case				2.8	$^\circ\text{C}/\text{W}$

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