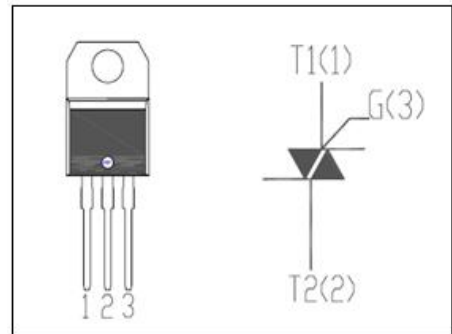


## isc Triacs

## BTA20-800B

## FEATURES

- With TO-220AB insulated package
- Suitable for general purpose where high surge current capability is required. Application such as phase control and static switching on inductive or resistive load.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )

SYMBOL	PARAMETER	MIN	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	800	V
$V_{\text{RRM}}$	Repetitive peak off-state voltage	800	V
$I_{\text{T(RMS)}}$	RMS on-state current (full sine wave) $T_j=70^\circ\text{C}$	20	A
$I_{\text{TSM}}$	Non-repetitive peak on-state current $t_p=10\text{ms}$	210	A
$T_j$	Operating junction temperature	125	$^\circ\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^\circ\text{C}$
$R_{\text{th(j-c)}}$	Thermal resistance, junction to case	2.1	$^\circ\text{C/W}$
$R_{\text{th(j-a)}}$	Thermal resistance, junction to ambient	60	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$  unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
$I_{\text{RRM}}$	Repetitive peak reverse current		$V_R=V_{\text{RRM}}, T_j=25^\circ\text{C}$ $V_R=V_{\text{RRM}}, T_j=125^\circ\text{C}$	0.01 3.0	mA
$I_{\text{DRM}}$	Repetitive peak off-state current		$V_D=V_{\text{DRM}}, T_j=25^\circ\text{C}$ $V_D=V_{\text{DRM}}, T_j=125^\circ\text{C}$	0.01 3.0	mA
$I_{\text{GT}}$	Gate trigger current	I	$V_D=12\text{V}; R_L=33\ \Omega$	50	mA
		II		50	
		III		50	
		IV		100	
$I_{\text{H}}$	Holding current		$I_{\text{GT}}=0.5\text{A}$ , Gate Open	75	mA
$V_{\text{GT}}$	Gate trigger voltage all quadrant		$V_D=12\text{V}; R_L=33\ \Omega$	1.5	V
$V_{\text{TM}}$	On-state voltage		$I_T=28\text{A}; t_p=380\ \mu\text{s}$	1.7	V

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