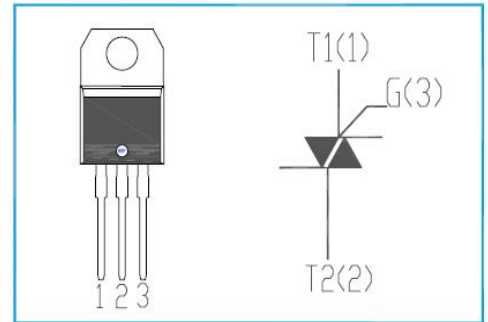


## isc Triacs

## BTB15-800B

## FEATURES

- With TO-220 insulated package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc
- 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
$I_{\text{T(RMS)}}$	Non repetitive surge peak on-state current (full cycle, $T_j$ initial = $90^{\circ}\text{C}$ )	15	A
$I_{\text{TSM}}$	Non-repetitive peak on-state current $t_p=10\text{ms}$	150	A
$I^2t$	$I^2t$ value for fusing ( $t=10\text{ms}$ )	112.5	$\text{A}^2\text{S}$
$P_{\text{G(AV)}}$	Average gate power dissipation $T_J = 125^{\circ}\text{C}$	2	W
$T_j$	Operating junction temperature	125	$^{\circ}\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^{\circ}\text{C}$

## isc Triacs

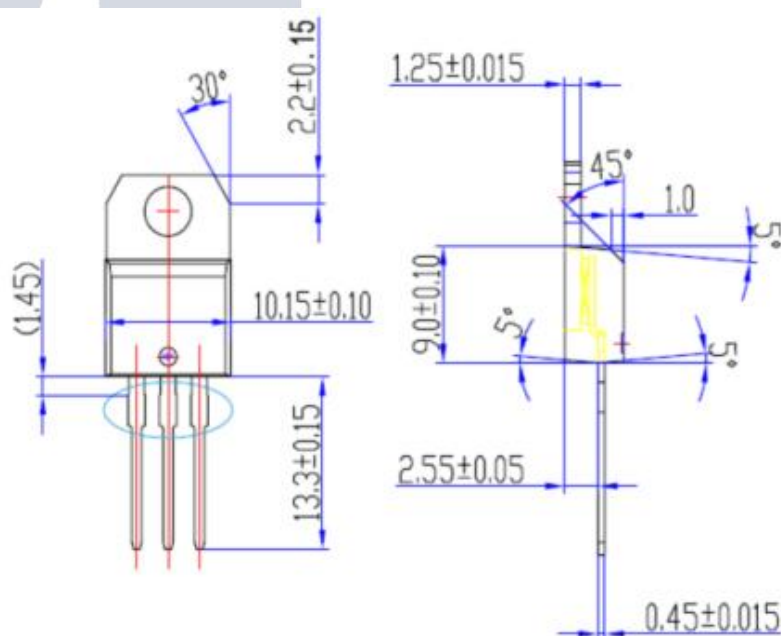
## BTB15-800B

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

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current		$V_R=V_{RRM}, T_j=25^{\circ}\text{C}$	10	$\mu\text{A}$
$I_{DRM}$	Repetitive peak off-state current		$V_D=V_{DRM}, T_j=25^{\circ}\text{C}$	10	$\mu\text{A}$
$I_{GT}$	Gate trigger current	I	$V_D=12\text{V}; R_L = 30\ \Omega;$	50	mA
		II		50	
		III		50	
		IV		100	
$I_H$	Holding current		$I_{GT}= 100\text{mA},$	50	mA
$V_{GT}$	Gate trigger voltage all quadrant		$V_D=12\text{V}; R_L = 30\ \Omega;$	1.5	V
$V_{TM}$	On-state voltage		$I_T= 21\text{A}; t_p= 380\ \mu\text{s}$	1.5	V

## PACKAGE OUTLINE

Dimensions in mm



### Product Disclaimer

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