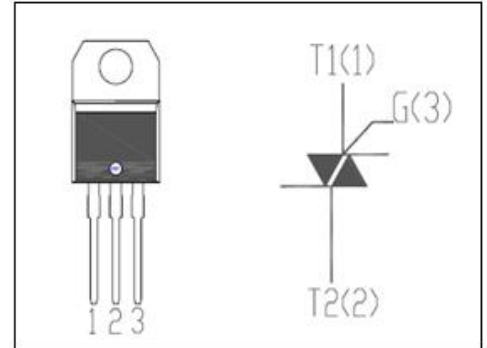


isc Triacs

BTB10-600C

FEATURES

- With TO-220AB non 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_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{\text{T(RMS)}}$	RMS on-state current (full sine wave) $T_c=95^\circ\text{C}$	10	A
I_{TSM}	Non-repetitive peak on-state current $t_p=10\text{ms}$	100	A
T_j	Operating junction temperature	125	$^\circ\text{C}$
T_{stg}	Storage temperature	-40~150	$^\circ\text{C}$
$R_{\text{th(j-c)}}$	Thermal resistance, junction to case	3.1	$^\circ\text{C/W}$
$R_{\text{th(j-a)}}$	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_{RRM}	Repetitive peak reverse current		$V_R=V_{\text{RRM}}$, $V_R=V_{\text{RRM}}$, $T_j=110^\circ\text{C}$	0.01 0.5	mA
I_{DRM}	Repetitive peak off-state current		$V_D=V_{\text{DRM}}$, $V_D=V_{\text{DRM}}$, $T_j=110^\circ\text{C}$	0.01 0.5	mA
I_{GT}	Gate trigger current	I	$V_D=12\text{V}$; $R_L=33\ \Omega$	25	mA
		II		25	
		III		25	
		IV		50	
I_H	Holding current		$I_{\text{GT}}=0.5\text{A}$, Gate Open	25	mA
V_{GT}	Gate trigger voltage all quadrant		$V_D=12\text{V}$; $R_L=33\ \Omega$	1.5	V
V_{TM}	On-state voltage		$I_T=14\text{A}$; $t_p=380\ \mu\text{s}$	1.5	V

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