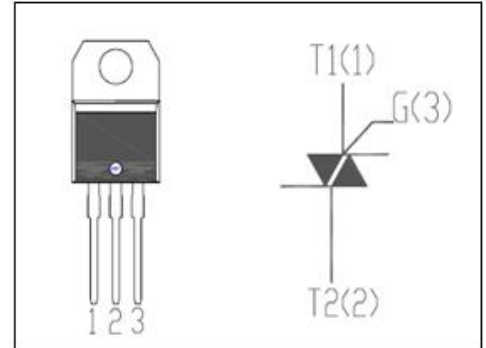


isc Triacs
BTB16-600SW
FEATURES

- 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 (Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)	16	A
I_{TSM}	Non-repetitive peak on-state current $t_p=20ms$	160	A
T_j	Operating junction temperature	125	°C
T_{stg}	Storage temperature	-40~150	°C
$R_{th(j-c)}$	Thermal resistance, junction to case	2.3	°C/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	60	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT	
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, $V_R=V_{RRM}$, $T_j=110^\circ\text{C}$	0.005 2	mA	
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $V_D=V_{DRM}$, $T_j=110^\circ\text{C}$	0.005 2	mA	
I_{GT}	Gate trigger current	I	10	mA	
		II	$V_D=12V$; $R_L=33\ \Omega$		10
		III	10		
V_{GT}	Gate trigger voltage all quadrant	$V_D=12V$; $R_L=33\ \Omega$	1.3	V	
I_H	Holding current	$I_{GT}=0.5A$, Gate Open	50	mA	
V_{TM}	On-state voltage	$I_T=22.5A$; $t_p=380\ \mu s$	1.55	V	

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