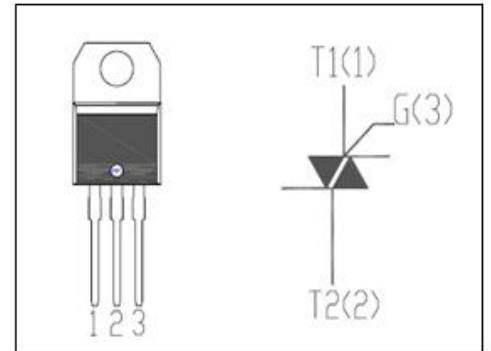


isc Triacs

BTA16-800BW

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_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak off-state voltage	800	V
$I_{\text{T(RMS)}}$	RMS on-state current (full sine wave) $T_j=80^{\circ}\text{C}$	16	A
I_{TSM}	Non-repetitive peak on-state current $t_p=20\text{ms}$	160	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	2.9	$^{\circ}\text{C/W}$
$R_{\text{th(j-a)}}$	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		$V_R=V_{\text{RRM}}, T_j=25^{\circ}\text{C}$ $V_R=V_{\text{RRM}}, T_j=125^{\circ}\text{C}$	0.01 2	mA
I_{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 2	mA
I_{GT}	Gate trigger current	I	$V_D=12\text{V}; R_L=33\Omega$	50	mA
		II		50	
		III		50	
I_{H}	Holding current		$I_{\text{GT}}=0.5\text{A}$, Gate Open	50	mA
V_{GT}	Gate trigger voltage all quadrant		$V_D=12\text{V}; R_L=33\Omega$	1.3	V
V_{TM}	On-state voltage		$I_T=22.5\text{A}; t_p=380\mu\text{s}$	1.6	V

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