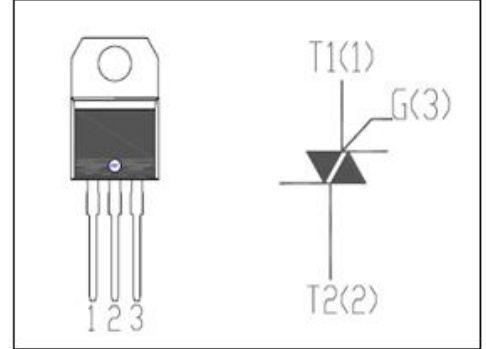


## isc Triacs

## BTA16-600CWRG

## FEATURES

- With TO-220AB 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	2.1	°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		$V_R=V_{RRM}$ , $V_R=V_{RRM}$ , $T_j=125^\circ\text{C}$	0.005 2	mA
$I_{DRM}$	Repetitive peak off-state current		$V_D=V_{DRM}$ , $V_D=V_{DRM}$ , $T_j=125^\circ\text{C}$	0.005 2	mA
$I_{GT}$	Gate trigger current	I	$V_D=12V$ ; $R_L=33\Omega$	35	mA
		II		35	
		III		35	
		IV		50	
$I_H$	Holding current		$I_{GT}=0.5A$ , Gate Open	35	mA
$V_{GT}$	Gate trigger voltage all quadrant		$V_D=12V$ ; $R_L=33\Omega$	1.3	V
$V_{TM}$	On-state voltage		$I_T=22.5A$ ; $t_p=380\mu s$	1.55	V

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