

isc Triacs

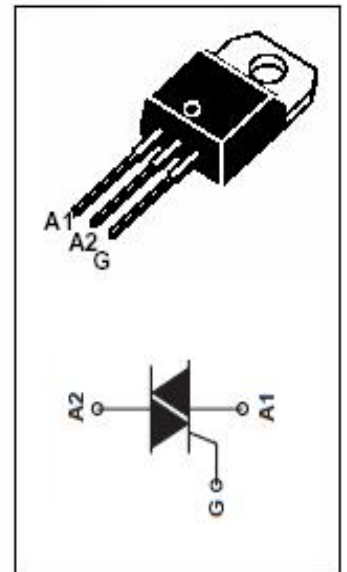
BTA25-800CW

FEATURES

- With TO-220AB insulated package
 - Suitable for general purpose where high surge current capability is required.
- Application such as phase control and static switching on inductive or resistive load.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_j=90^{\circ}\text{C}$	25	A
I_{TSM}	Non-repetitive peak on-state current $t_p=8.3\text{ms}$	260	A
T_j	Operating junction temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-45~150	$^{\circ}\text{C}$
$P_{G(AV)}$	Average gate power dissipation($T_j=125^{\circ}\text{C}$)	1	W
$R_{th(j-c)}$	Thermal resistance, junction to case	0.8	$^{\circ}\text{C/W}$
$R_{th(j-a)}$	Thermal resistance, junction to ambient	60	$^{\circ}\text{C/W}$



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

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		$V_R=V_{RRM}$, $V_R=V_{RRM}$, $T_j=125^{\circ}\text{C}$	0.05 3.0	mA
I_{DRM}	Repetitive peak off-state current		$V_D=V_{DRM}$, $V_D=V_{DRM}$, $T_j=125^{\circ}\text{C}$	0.05 3.0	mA
I_{GT}	Gate trigger current	I	$V_D=12\text{V}$; $R_L=33\Omega$	35	mA
		II		35	
		III		35	
V_{GT}	Gate trigger voltage all quadrant		$V_D=12\text{V}$; $R_L=33\Omega$	1.3	V
V_{TM}	On-state voltage		$I_T=35\text{A}$; $t_p=380\mu\text{s}$	1.55	V

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