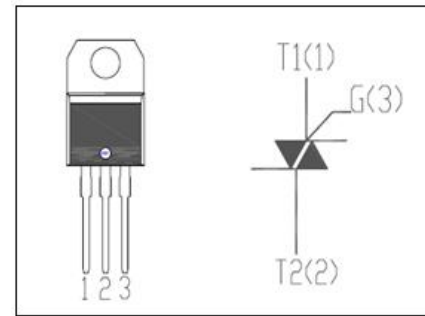


isc Triacs

BTA24-800CW

FEATURES

- With TO-220AB insulated package
- Suitable for general purpose where high surge current capability is required. Phase control and static switching on inductive or resistive load.
- 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 reverse voltage	800	V
$I_{\text{T(RMS)}}$	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	$^{\circ}\text{C}$
$P_{\text{G(AV)}}$	Average gate power dissipation ($T_j=125^{\circ}\text{C}$)	1	W
$R_{\text{th(j-c)}}$	Thermal resistance, junction to case	1.5	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{\text{RRM}}$, $V_R=V_{\text{RRM}}$, $T_j=125^{\circ}\text{C}$	0.01 3.0	mA
I_{DRM}	Repetitive peak off-state current	$V_D=V_{\text{DRM}}$, $V_D=V_{\text{DRM}}$, $T_j=125^{\circ}\text{C}$	0.01 3.0	mA
I_{GT}	Gate trigger current	I	35	mA
		II	35	
		III	35	
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	$I_T=35\text{A}$; $t_p=380\mu\text{s}$	1.55	V

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