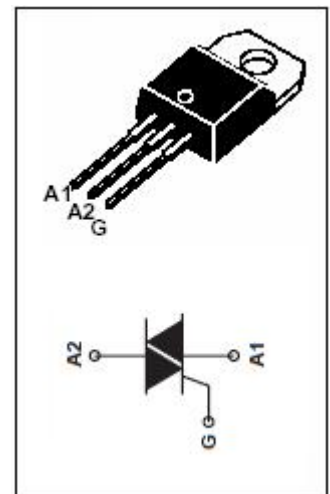


isc Triacs
BTA24-600B
FEATURES

- 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.
- 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 reverse voltage	600	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	°C
T_{stg}	Storage temperature	-45~150	°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	1.5	°C/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	50	°C/W


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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT	
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, $V_R=V_{RRM}$, $T_j=125^\circ\text{C}$	0.01 3.0	mA	
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $V_D=V_{DRM}$, $T_j=125^\circ\text{C}$	0.01 3.0	mA	
I_{GT}	Gate trigger current	I	$V_D=12\text{V}$; $R_L=33\ \Omega$	50	mA
		II		50	
		III		50	
		IV		100	
I_H	Holding current	$I_{GT}=0.5\text{A}$, Gate Open	80	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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