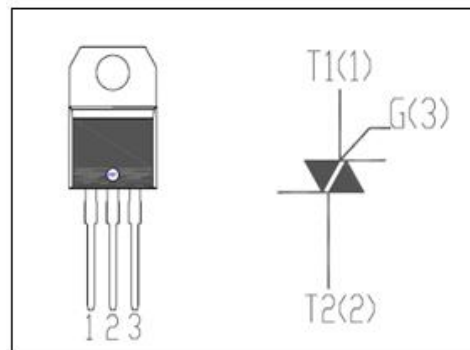


isc Triacs

BTA140-800

FEATURES

- With TO-220AB insulated package
- Be 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)	25	A
I_{TSM}	Non-repetitive peak on-state current $t_p=20\text{ms}$	190	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	1.4	$^{\circ}\text{C/W}$
$R_{\text{th(j-a)}}$	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		$V_R=V_{\text{RRM}}$, $V_R=V_{\text{RRM}}$, $T_j=125^{\circ}\text{C}$	0.005 0.5	mA
I_{DRM}	Repetitive peak off-state current		$V_D=V_{\text{DRM}}$, $V_D=V_{\text{DRM}}$, $T_j=125^{\circ}\text{C}$	0.005 0.5	mA
I_{GT}	Gate trigger current	I	$V_D=12\text{V}$; $I_T=0.1\text{A}$	35	mA
		II		35	
		III		35	
		IV		70	
I_{H}	Holding current		$I_{\text{GT}}=0.1\text{A}$, Gate Open	30	mA
V_{GT}	Gate trigger voltage all quadrant		$V_D=12\text{V}$; $I_T=0.1\text{A}$	1.5	V
V_{TM}	On-state voltage		$I_T=30\text{A}$	1.55	V