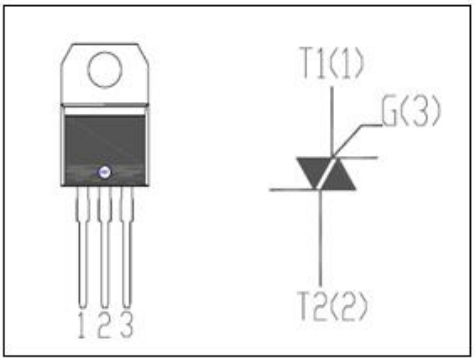
isc Triacs CTB16-400B

FEATURES

- With TO-220AB non 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℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak off-state voltage	400	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) Tc=100℃	16	A
I_{TSM}	Non-repetitive peak on-state current	160	A
T_j	Operating junction temperature	-40~125	℃
T_{stg}	Storage temperature	-40~150	℃
$R_{th(j-c)}$	Thermal resistance, junction to case	1.2	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	60	℃/W

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		$V_R=V_{RRM}$, $V_R=V_{RRM}$, Tj=125℃	5 2	μA mA
I_{DRM}	Repetitive peak off-state current		$V_D=V_{DRM}$, $V_D=V_{DRM}$, Tj=125℃	5 2	μA mA
I_{GT}	Gate trigger current	I	V_D=12V; R_L= 30Ω	50	mA
		II		50	
		III		50	
		IV		100	
I_H	Holding current		I_T= 0.5A, Gate Open	50	mA
V_{GT}	Gate trigger voltage all quadrant		V_D=12V; R_L= 30Ω	1.3	V
V_{TM}	On-state voltage		I_T= 22.5A; t_p= 380 μs	1.55	V

isc Triacs CTB16-400B

NOTICE：

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.