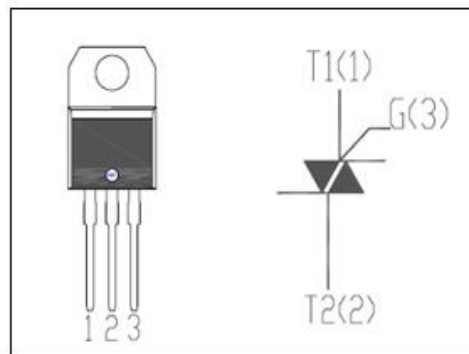


isc Triacs

BTA20-700CW

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	700	V
V _{RRM}	Repetitive peak reverse voltage	700	V
I _{T(RMS)}	RMS on-state current (full sine wave) T _j =70°C	20	A
I _{TSM}	Non-repetitive peak on-state current t _p =10ms	210	A
T _j	Operating junction temperature	125	°C
T _{stg}	Storage temperature	-45~150	°C
R _{th(j-c)}	Thermal resistance, junction to case	2.8	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	60	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} , V _R =V _{RRM} , T _j =125°C		0.01 3.0	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} , V _D =V _{DRM} , T _j =125°C		0.01 3.0	mA
I _{GT}	Gate trigger current	I - II -III V _D =12V; R _L = 33 Ω	1	35	mA
I _H	Holding current	I _{GT} = 0.5A, Gate Open		50	mA
V _{GT}	Gate trigger voltage	I - II -III V _D =12V; R _L = 33 Ω		1.5	V
V _{TM}	On-state voltage	I _T = 28A; t _p = 380 μs		1.7	V

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