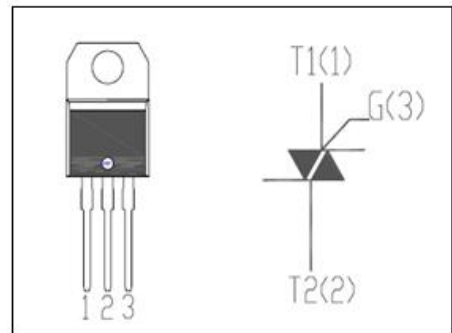


FEATURES

- 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	BTA20-600 BTA20-700	600 700	V
V _{RRM}	Repetitive peak off-state voltage	BTA20-600 BTA20-700 BTA20-800	600 700 800	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		-40~150	°C
R _{th(j-c)}	Thermal resistance, junction to case		2.1	°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	MAX	UNIT	
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} , T _j =25°C V _R =V _{RRM} , T _j =125°C	0.01 3.0	mA	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} , T _j =25°C V _D =V _{DRM} , T _j =125°C	0.01 3.0	mA	
I _{GT}	Gate trigger current	V _D =12V; R _L = 33 Ω	I	50	mA
			II	50	
			III	50	
			IV	100	
I _H	Holding current	I _{GT} = 0.5A, Gate Open	75	mA	

V_{GT}	Gate trigger voltage all quadrant	$V_D=12V$; $R_L=33\ \Omega$	1.5	V
V_{TM}	On-state voltage	$I_T=28A$; $t_p=380\ \mu s$	1.7	V

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