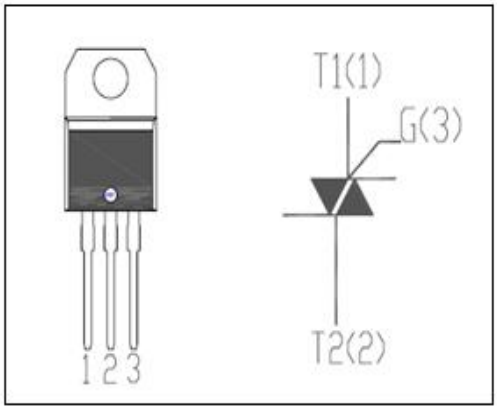
isc Thyristors BTA212B-800B

DESCRIPTION

- With TO-220 packaging
- High operating junction temperature
- Very high commutation performancemaximized at each gate sensitivity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- High temperature, high power motor control
- Solid state relays;heating and cooking appliances
- Switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		800	V
V_{RRM}	Repetitive peak reverse voltage		800	V
$I_{T(RMS)}$	RMS on-state current @Tc=99℃		12	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	95 104	A
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)		0.5	W
T_j	Operating junction temperature		-40~125	℃
T_{stg}	Storage temperature		-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_R=V_{RRM} Rated; V_D=V_{DRM} Rated;	Tj=25℃		0.01	mA
I_{DRM}	Repetitive peak off-state current		Tj=100℃		0.5	
V_{TM}	On-state voltage	I_T=17A,t_P=380μs			1.6	V
I_{GT}	Gate-trigger current	V_D =12V;I_T=0.1A	I		50	mA
			II		50	
			III		50	
V_{GT}	Gate-trigger voltage	V_D =12V;I_T=0.1A			1.5	V