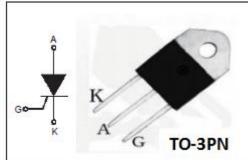


isc Thyristors

BTW69-1000

APPLICATIONS

- Available in high power packages, BTW69 Series is suitable in applications where power handling and power dissipation are critical, uch as solid state relays, welding equipment, high power motor
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	1000	V
V_{RRM}	Repetitive peak reverse voltage	1000	V
I _{T(AV)}	Average on-stage current , Tc=70° C	32	Α
I _{T(RMS)}	RMS on-state current Tc=70° C	50	Α
I _{TSM}	Surge non-repetitive on-state current T _P =10ms	500	Α
P _{G(AV)}	Average gate power dissipation	1	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} ,	T _j =25℃		10	μ A
			T _j =125℃		5	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} ,	T _j =25℃		10	μ Α
			Tj=125℃		5	mA
V_{TM}	On-state voltage	ITM= 100A			1.75	V
I _{GT}	Gate-trigger current	$V_D = 12 \text{ V}, \text{Ri= } 33 \Omega$			80	mA
V_{GT}	Gate-trigger voltage	$V_D = 12 \text{ V}, \text{RI= } 33 \Omega$			1.3	V
R _{th(j-c)}	Thermal resistance	Junction to case			0.9	°C/W

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NOTICE:

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