

isc Thyristors

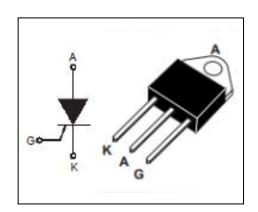
BTW69-1200N

DESCRIPTION

- With TO-3P packaging
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Battery charging system
- Uninterruptible power supply
- Variable speed motor drive
- · Industrial welding systems
- By pass AC switch



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER			UNIT
V_{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current @Tc=102℃			А
I _{TSM}	Surge non-repetitive on-state current 50Hz 60Hz			А
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period) @Tc=125°C			W
T _j	Operating junction temperature			$^{\circ}$
T_{stg}	Storage temperature			$^{\circ}$



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25°C		10	μ A
I_{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated; Tj=125℃			5	mA
V _{TM}	On-state voltage	I _T =100A;t _P =380 μ s			1.6	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =33 Ω			50	mA
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =33 Ω			1.3	V
Rth (j-c)	Junction to case	For AC			0.45	°C/W

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