

isc Thyristors

INCHANGE SEMICONDUCTOR

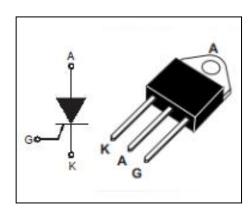
BTW69-1200N

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°C)

SYMBOL	PARAMETER		МАХ	UNIT
V _{DRM}	Repetitive peak off-state voltage		600	V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current	@Tc=102℃	50	А
I _{TSM}	Surge non-repetitive on-state current	50Hz 60Hz	763 700	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) @Tc=125 $^\circ\!\mathrm{C}$		1	W
Tj	Operating junction temperature		-40~125	°C
T _{stg}	Storage temperature		-40~150	C

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SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	V _R =V _{RRM} Rated; Tj=25℃		10 5	μA mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃			
Vtm	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

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

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