isc

isc Thyristors

INCHANGE SEMICONDUCTOR

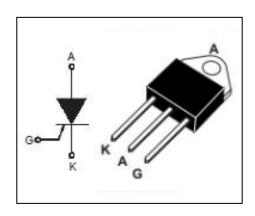
BTW69-600RG

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		MAX	UNIT
VDRM	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current @Tc=75°C		50	Α
I _{TSM}	Surge non-repetitive on-state current50Hz60Hz		580 610	Α
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) @Tc=125 $^{\circ}$ C			W
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			°C

ELECTRICAL CHARACTERISTICS (Tc=25 $\ensuremath{\mathbb{C}}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25 ℃		10	μ Α
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃		5	mA
V _{TM}	On-state voltage	Iτ=100A;tթ=380 μ s			1.9	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =33 Ω			80	mA
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =33 Ω			1.3	V
Rth _(j-c)	Junction to case	For AC			0.9	°C/W

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