

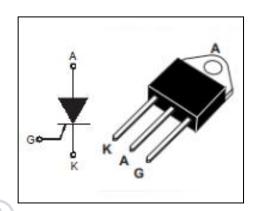
isc Thyristors BTW69-800RG

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	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RSM)}	Average on-state current @Tc=102°C	50	Α
I _{TSM}	Surge non-repetitive on-state current 50Hz 60Hz	580 610	Α
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period) @Tc=125 $^{\circ}\mathrm{C}$	1	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}C$ 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	I _T =100A;t _P =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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