INCHANGE SEMICONDUCTOR

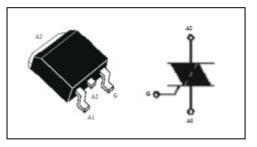


isc Thyristors

T835-600G

APPLICATIONS

- With TO-263 package.
- Be suitable for general purpose AC switching, they can be used as an ON/OFF function in applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



ABSOLUTE MAXIMUM RATINGS(T_a=25 $^{\circ}$ C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage		V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current @T₀=110°C	8	Α
I _{TSM}	Surge non-repetitive on-state current F=50HZ; t=20ms F=60HZ;16.7ms	80 84	Α
P _{G(AV)}	Average gate power dissipation $@T_j=125^{\circ}C t_P=20 \ \mu s$	1	W
Tj	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	VRM=VRRM	T j =25 ℃		5	μ Α
			Tj =125 ℃		1	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	Tj =25 ℃		5	μA
			Tj =125 ℃		1	mA
V _{TM}	On-state voltage	I _{TM} = 11A; t _p =380 μ s			1.55	V
I _{GT}	Gate-trigger current(minimum IGT is guaranted at 5% of IGT max)Quadrant(I - II - III)	V _D = 12 V;R _L =30 Ω			35	mA
V _{GT}	Gate-trigger voltage Quadrant (I - II - III)	V _D = 12 V;R _L =30 Ω			1.3	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.6	°C/W
R _{th(j-a)}	Thermal resistance	Junction to case			45	°C/W

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