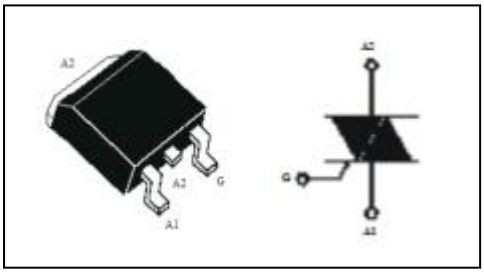
isc Thyristors T835-600G



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℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		600	V
V_{RRM}	Repetitive peak reverse voltage		600	V
$I_{T(RMS)}$	RMS on-state current	@T_c=110℃	8	A
I_{TSM}	Surge non-repetitive on-state current	F=50HZ；t=20ms F=60HZ;16.7ms	80 84	A
$P_{G(AV)}$	Average gate power dissipation	@T_j=125℃ t_P=20μs	1	W
T_j	Operating junction temperature		-40~125	℃
T_{stg}	Storage temperature		-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM}	T_j=25℃		5	μA
			T_j=125℃		1	mA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM}	T_j=25℃		5	μA
			T_j=125℃		1	mA
V_{TM}	On-state voltage	I_{TM}= 11A；t_p=380μs			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=30Ω			35	mA
V_{GT}	Gate-trigger voltage Quadrant (I - II - III)	V_D = 12 V;R_L=30Ω			1.3	V
$R_{th(j-c)}$	Thermal resistance	Junction to case			1.6	℃/W
$R_{th(j-a)}$	Thermal resistance	Junction to case			45	℃/W

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