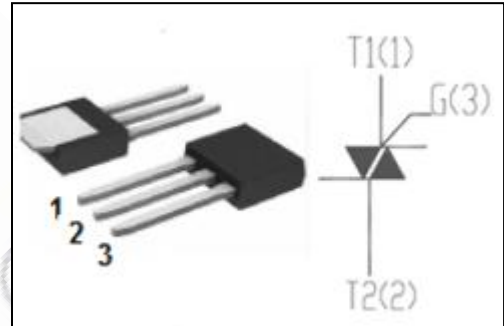


isc Thyristors
T835-600H
APPLICATIONS

- With TO-251(IPAK) 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($T_a=25^{\circ}\text{C}$)

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 @ $T_c=110^{\circ}\text{C}$	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 @ $T_j=125^{\circ}\text{C}$ $t_p=20\ \mu\text{s}$	1	W
T_j	Operating junction temperature	-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}$	$T_j=25^{\circ}\text{C}$	5	μA
			$T_j=125^{\circ}\text{C}$	1	mA
I_{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$	$T_j=25^{\circ}\text{C}$	5	μA
			$T_j=125^{\circ}\text{C}$	1	mA
V_{TM}	On-state voltage	$I_{TM}=11\text{A}; t_p=380\ \mu\text{s}$		1.55	V
I_{GT}	Gate-trigger current (minimum IGT is guaranteed at 5% of IGT max) Quadrant(I - II - III)	$V_D = 12\text{V}; R_L=30\ \Omega$		35	mA
V_{GT}	Gate-trigger voltage Quadrant (I - II - III)	$V_D = 12\text{V}; R_L=30\ \Omega$		1.3	V
$R_{th(j-c)}$	Thermal resistance	Junction to case		1.6	$^{\circ}\text{C}/\text{W}$
$R_{th(j-a)}$	Thermal resistance	Junction to case		100	$^{\circ}\text{C}/\text{W}$

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