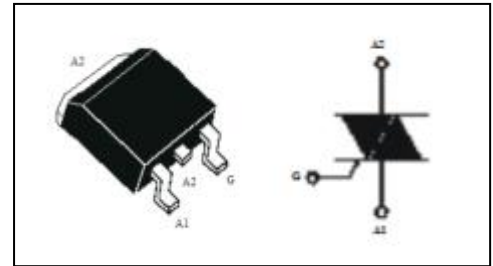


isc Thyristors

T2535-600G

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($T_a=25^\circ\text{C}$)

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 @ $T_c=100^\circ\text{C}$	25	A
I_{TSM}	Surge non-repetitive on-state current F=50HZ; t=20ms F=60HZ; 16.7ms	250 260	A
$P_{G(AV)}$	Average gate power dissipation @ $T_j=100^\circ\text{C}$	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
			$T_j=125^\circ\text{C}$	3	mA
I_{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$	$T_j=25^\circ\text{C}$	5	μA
			$T_j=125^\circ\text{C}$	3	mA
V_{TM}	On-state voltage	$I_{TM}=35\text{A}; t_p=380\mu\text{s}$		1.75	V
I_{GT}	Gate-trigger current 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		0.8	$^\circ\text{C/W}$

NOTICE:

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