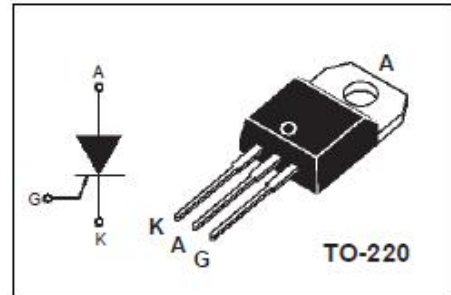


isc Thyristors

S8008R

DESCRIPTION

- With TO-220 Non-isolated packaging
- Glass passivated junctions and center gate fire for greater parameter uniformity and stability
- 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		800	V
V _{RRM}	Repetitive peak reverse voltage		800	V
I _{T(RMS)}	RMS on-state current		8	A
I _{TSM}	Surge non-repetitive on-state current	50Hz 60Hz	83 100	A
P _{G(AV)}	Average gate power dissipation		0.5	W
T _j	Operating junction temperature		-40~125	℃
T _{stg}	Storage temperature		-40~150	℃

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{\text{RM}}=V_{\text{RRM}}$ $V_{\text{DM}}=V_{\text{DRM}}$ $T_j=25^\circ\text{C}$ $T_j=100^\circ\text{C}$ $T_j=125^\circ\text{C}$		0.01	mA
I_{DRM}	Repetitive peak off-state current			0.2	
				0.5	
V_{TM}	On-state voltage	$I_{\text{TM}}=8\text{A}$		1.6	V
I_{GT}	Gate-trigger current	$V_{\text{D}}=12\text{V}; \text{RL}=33\ \Omega$	1	15	mA
V_{GT}	Gate-trigger voltage	$V_{\text{D}}=12\text{V}; \text{RL}=33\ \Omega$		1.5	V
I_{H}	Holding current	$I_{\text{GT}}=0.2\text{A}$		30	mA

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