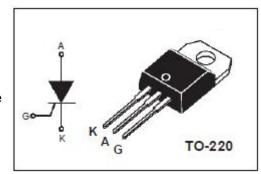


isc Thyristors S8020L

DESCRIPTION

- With TO-220 packaging
- · Electrically-isolated package
- High surge capability
- 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



APPLICATIONS

· Switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER				UNIT
V _{DRM}	Repetitive peak off-state voltage	171		800	V
V_{RRM}	Repetitive peak reverse voltage	(4		800	V
I _{T(RMS)}	RMS on-state current			20	Α
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;Tc=25℃)		50HZ 60HZ	255 300	Α
$P_{G(AV)}$	Average gate power dissipation	Tp=8.3ms		0.6	W
T _j	Operating junction temperature	3		-40~125	$^{\circ}$ C
T _{stg}	Storage temperature			-40~150	$^{\circ}$ C

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℃		0.02	0
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =100℃ T _j =125℃		1.0 2.0	mA
V_{TM}	On-state voltage	I _{TM} = 20A			1.6	V
I _{GT}	Gate-trigger current	V _D = 12 V; RL=60 Ω			30	mA
V_{GT}	Gate-trigger voltage	V _D = 12 V; RL=60 Ω			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			2.4	°C/W

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