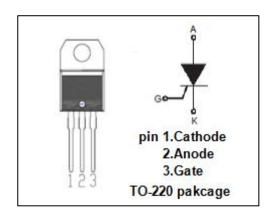


isc Thyristors S4008L

APPLICATIONS

- · With TO-220 insulated package
- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection, motor control circuits in power tools and kitchen aids, in-rush current limiting circuits, capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM} /V _{RRM}	Repetitive peak off-state voltage	400	V
I _{T(RMS)}	RMS on-state current	8	Α
I _{T(AV)}	Average on-stage current	5.1	Α
I _{TSM}	Surge non-repetitive on-state current tp=10ms	80	Α
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM} /I _{DRM}	Repetitive peak off-state current	$V_{RM}=V_{RRM}, R_{GK}=220 \Omega$,	Tj=25°C		0.01	mA
			T _j =125℃		1	mA
V_{TM}	On-state voltage	I _{TM} = 24A			1.6	V
I _{GT}	Gate-trigger current	$V_D = 12 \text{ V}; I_T = 0.1 \text{ A}$			15	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V; I _T = 0.1 A			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			2.05	°C/W

NOTICE:

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