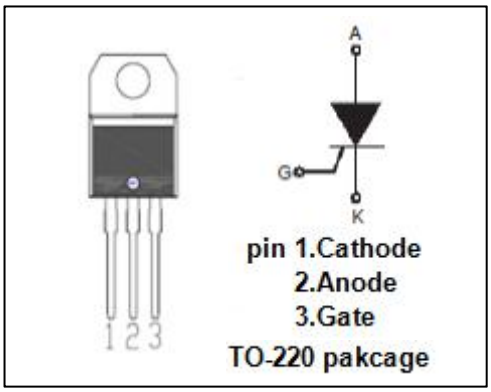
isc Thyristors S4008L

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(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}/V_{RRM}	Repetitive peak off-state voltage	400	V
$I_{T(RMS)}$	RMS on-state current	8	A
$I_{T(AV)}$	Average on-stage current	5.1	A
I_{TSM}	Surge non-repetitive on-state current tp=10ms	80	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℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}/I_{DRM}	Repetitive peak off-state current	$V_{RM}=V_{RRM}$,R_{GK}= 220Ω,	T_j=25℃		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 V; I_T = 0.1 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	℃/W