

isc Thyristors

S4025L

APPLICATIONS

With TO-220 insulated package

George K A G TO-220

- 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°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	400	V
V _{RRM}	Repetitive peak reverse voltage	400	V
I _{T(AV)}	Average on-stage current	16	А
I _{T(RMS)}	RMS on-state current	25	А
P _{G(AV)}	Average gate power dissipation	1	W
Tj	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}, R_{GK}=220 \Omega$,	Tj =25 ℃		10	μ Α
			Tj =125 ℃		2	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , ,R _{GK} = 220 Ω	Tj =25 ℃		10	μA
			Tj =125 ℃		2	mA
V _{TM}	On-state voltage	I _{TM} = 75A			1.4	V
I _{GT}	Gate-trigger current	V _D = 12 V;R _L =100 Ω			30	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

isc website: www.iscsemi.com



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