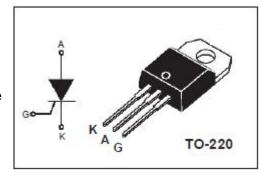


isc Thyristors S6025L

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	P 2	600	V
V_{RRM}	Repetitive peak reverse voltage		600	V
I _{T(RMS)}	RMS on-state current		25	А
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;Tc=25℃)		HZ 300 HZ 350	А
P _{G(AV)}	Average gate power dissipation Tp=8.3ms		0.5	W
Tj	Operating junction temperature	7	-40~12	.5 °C
T _{stg}	Storage temperature		-40~15	0 °C

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =25℃		0.01	
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} = 25A			1.6	V
I _{GT}	Gate-trigger current	V _D = 12 V; RL=60 Ω			35	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			2.5	°C/W

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