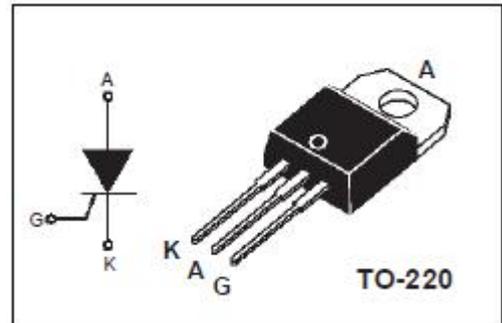


isc Thyristors
S8025L
APPLICATIONS

- 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($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
$I_{\text{T(RMS)}}$	RMS on-state current	25	A
$I_{\text{T (AV)}}$	Average on-state current	16	A
I_{TSM}	Surge non-repetitive on-state current	50HZ	300
		60HZ	350
T_j	Operating junction temperature	-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~125	$^{\circ}\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;	T _c =25°C		0.02	mA
I _{DRM}	Repetitive peak off-state current		T _c =100°C		1.5	
		T _c =125°C		3		
V _{TM}	On-state voltage				1.6	V
I _{GT}	Gate-trigger current	V _D =12V;RL=60 Ω ;			0.2	mA
V _{GT}	Gate-trigger voltage	V _D =12V;RL=60 Ω ;			1.6	V

NOTICE:

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