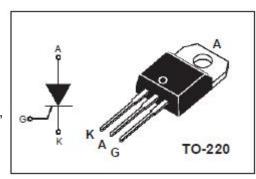


isc Thyristors S4025R

APPLICATIONS

- With TO-220 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°C)

SYMBOL	PARAMETER			UNIT	
V_{DRM}	Repetitive peak off-state voltage			V	
V_{RRM}	Repetitive peak reverse voltage			V	
I _{T(RMS)}	RMS on-state current			Α	
IT (AV)	Average on-state current			Α	
I _{TSM}	Surge non-repetitive on-state current	50HZ	300	Α	
		60HZ	350		
Tj	Operating junction temperature		-40~125	$^{\circ}$	
T _{stg}	Storage temperature			$^{\circ}$	

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tc=25℃		0.01	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tc=100 °C Tc=125 °C		2	mA
V _{TM}	On-state voltage				1.6	V
I _{GT}	Gate-trigger current	V _D =12V;RL=60 Ω;			35	mA
V _{GT}	Gate-trigger voltage	V _D =12V;RL=60 Ω;			1.5	V



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