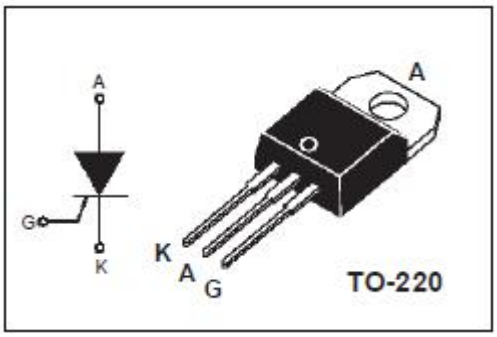
isc Thyristors S6025R



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(T_a=25℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		600	V
V_{RRM}	Repetitive peak reverse voltage		600	V
$I_{T(RMS)}$	RMS on-state current		25	A
IT（AV）	Average on-state current		16	A
I_{TSM}	Surge non-repetitive on-state current	50HZ	300	A
		60HZ	350	
T_j	Operating junction temperature		-40~125	℃
T_{stg}	Storage temperature		-40~125	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ 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;	Tc=25℃		0.01	mA
			Tc=100℃		1	
I_{DRM}	Repetitive peak off-state current		Tc=125℃		2	
V_{TM}	On-state voltage				1.6	V
I_{GT}	Gate-trigger current	V_D =12V;RL=60Ω;			35	mA
V_{GT}	Gate-trigger voltage	V_D =12V;RL=60Ω;			1.5	V