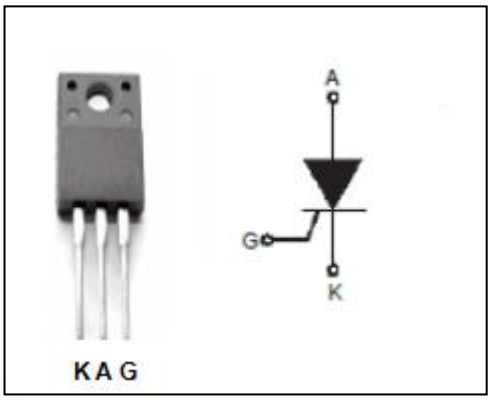
isc Thyristors 25TTS12FP



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.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		1200	V
V_{RRM}	Repetitive peak reverse voltage		1200	V
$I_{T(AV)}$	Average on-stage current		16	A
$I_{T(RMS)}$	RMS on-state current		25	A
I_{TSM}	Surge non-repetitive on-state current	T_P=10ms	300	A
$P_{G(AV)}$	Average gate power dissipation	over any 20 ms period	2.0	W
T_j	Operating junction temperature		-40~125	℃
T_{stg}	Storage temperature		-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM}	T_j=25℃		0.5	mA
			T_j=125℃		10	mA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM}	T_j=25℃		0.5	mA
			T_j=125℃		10	mA
V_{TM}	On-state voltage	I_{TM}= 16A			1.25	V
I_{GT}	Gate-trigger current	V_D = 6 V;resistive load			45	mA
V_{GT}	Gate-trigger voltage	V_D = 6 V;resistive load			2	V
$R_{th(j-c)}$	Thermal resistance	Junction to case			1.5	℃/W