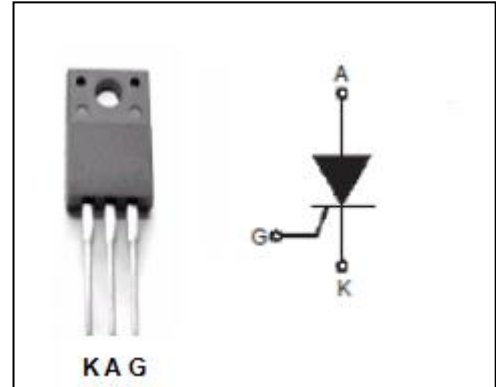


## isc Thyristors

## 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.
- 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
$V_{\text{DRM}}$	Repetitive peak off-state voltage	1200	V
$V_{\text{RRM}}$	Repetitive peak reverse voltage	1200	V
$I_{\text{T(AV)}}$	Average on-state current	16	A
$I_{\text{T(RMS)}}$	RMS on-state current	25	A
$I_{\text{TSM}}$	Surge non-repetitive on-state current	300	A
$P_{\text{G(AV)}}$	Average gate power dissipation	2.0	W
$T_j$	Operating junction temperature	-40~125	$^\circ\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$  unless otherwise specified)**

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

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