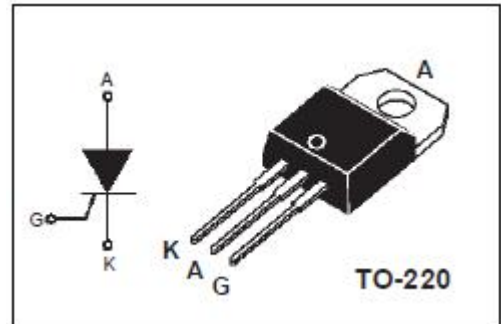


isc Thyristors
25TTS12
APPLICATIONS

- Typical applications are in input rectification (soft start) and these products are designed to be used with International Rectifier input diodes, switches and output rectifiers which are available in identical package outlines


ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	1200	V
V_{RRM}	Repetitive peak reverse voltage	1200	V
$I_{\text{T(AV)}}$	Average on-state current	16	A
I_{RMS}	RMS on-state current	25	A
I_{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_{stg}	Storage temperature	-40~125	$^\circ\text{C}$

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

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