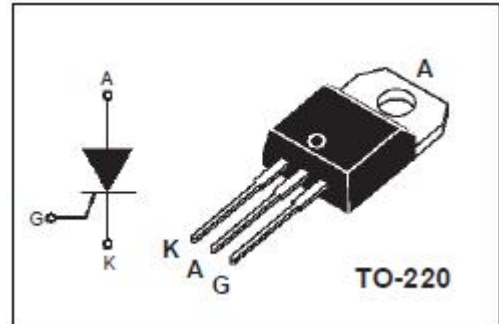


**isc Thyristors**
**25TTS08**
**APPLICATIONS**

- Typical applications are in input rectification (soft start) and these products are designed to be used with switches and output rectifiers.


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

SYMBOL	PARAMETER	MIN	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	800	V
$V_{\text{RRM}}$	Repetitive peak reverse voltage	800	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
$T_j$	Operating junction temperature	-40~125	$^{\circ}\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~125	$^{\circ}\text{C}$

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$I_{\text{RRM}}$	Repetitive peak reverse current	$V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=220\ \Omega,$	$T_j=25^{\circ}\text{C}$	0.5	mA
			$T_j=125^{\circ}\text{C}$	10	mA
$I_{\text{DRM}}$	Repetitive peak off-state current	$V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=220\ \Omega$	$T_j=25^{\circ}\text{C}$	0.5	mA
			$T_j=125^{\circ}\text{C}$	10	mA
$V_{\text{TM}}$	On-state voltage	$I_{\text{TM}}=16\text{A}$		1.25	V
$I_{\text{GT}}$	Gate-trigger current	$V_{\text{AK}}=6\text{V}$ , resistive load		45	mA
$V_{\text{GT}}$	Gate-trigger voltage	$V_{\text{AK}}=6\text{V}$ , resistive load		2.0	V
$R_{\text{th(j-c)}}$	Thermal resistance	Junction to case		1.1	$^{\circ}\text{C}/\text{W}$