isc Thyristors   **25TTS08**
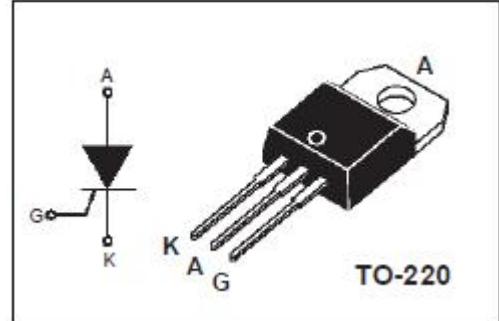
APPLICATIONS

- Typical applications are in input rectification (soft start) and these products are designed to be used with switches and output rectifiers.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

TO-220

ABSOLUTE MAXIMUM RATINGS(T$_a$=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V$_{DRM}$	Repetitive peak off-state voltage	800	V
V$_{RRM}$	Repetitive peak reverse voltage	800	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	300	A
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$_{RM}$=V$_{RRM}$,R$_{GK}$= 220Ω,	T$_j$=25℃		0.5	mA
			T$_j$=125℃		10	mA
I$_{DRM}$	Repetitive peak off-state current	V$_{DM}$=V$_{DRM}$, ,R$_{GK}$= 220Ω	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$_{AK}$ = 6 V，resistive load			45	mA
V$_{GT}$	Gate-trigger voltage	V$_{AK}$= 6 V，resistive load			2.0	V
R$_{th(j-c)}$	Thermal resistance	Junction to case			1.1	℃/W

NOTICE：

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