

## **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
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

# GGER KAG TO-220

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage	1200	V
V <sub>RRM</sub>	Repetitive peak reverse voltage	1200	V
I <sub>T(AV)</sub>	Average on-stage current	16	Α
I <sub>RMS</sub>	RMS on-state current	25	Α
I <sub>TSM</sub>	Surge non-repetitive on-state current	300	Α
P <sub>G(AV)</sub>	Average gate power dissipation	2.0	W
Tj	Operating junction temperature	-40~125	°C
T <sub>stg</sub>	Storage temperature	-40~125	°C

## ELECTRICAL CHARACTERISTICS (Tc=25 $\ensuremath{\mathbb{C}}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>RM</sub> =V <sub>RRM</sub>	Tj <b>=25</b> ℃		0.5	mA
			<b>T</b> j <b>=125</b> ℃		10	mA
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>DM</sub> =V <sub>DRM</sub>	<b>T</b> j <b>=25</b> ℃		0.5	mA
			Tj <b>=125</b> ℃		10	mA
V <sub>TM</sub>	On-state voltage	I <sub>TM</sub> = 16A			1.25	V
I <sub>GT</sub>	Gate-trigger current	V <sub>D</sub> = 6 V			45	mA
Vgt	Gate-trigger voltage	V <sub>D</sub> = 6 V			2	V
R <sub>th(j-c)</sub>	Thermal resistance	Junction to case			1.5	°C/W

isc website: www.iscsemi.com



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