isc

isc Thyristors

TYN1225

DESCRIPTION

- With TO-220 packaging
- Long-term stability
- Thyristor for line frequency
- Planar passivated chip
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Line rectifying 50/60 Hz

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

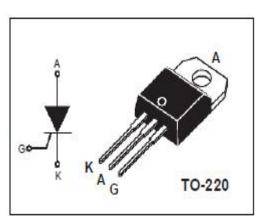
SYMBOL	PARAMETER		MIN	UNIT					
V _{DRM}	Repetitive peak off-state voltage		1200	V					
V _{RRM}	Repetitive peak reverse voltage		1200	V					
I _{T(AV)}	Average forward current Tc=96°C		16	А					
I _{T(RMS)}	RMS on-state current		25	A					
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;Tc=45℃)	50HZ 60HZ	260 250	Α					
P _{G(AV)}	Average gate power dissipation		0.5	W					
Tj	Operating junction temperature		-40~125	°C					
T _{stg}	Storage temperature		-40~150	°C					

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

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	Tj =25 ℃		0.01	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	Tj =125 ℃		4	
V _{TM}	On-state voltage	I _{TM} = 50A;tp=380 μ s			1.6	V
I _{GT}	Gate-trigger current	V _D = 12V; RL=33 Ω			40	mA
V _{GT}	Gate-trigger voltage	V _D = 12V; RL=33 Ω			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W

isc website: <u>www.iscsemi.com</u>

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INCHANGE SEMICONDUCTOR



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