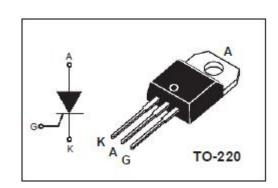


isc Thyristors MCR218-4

DESCRIPTION

- · With TO-220 packaging
- · High heat dissipation and durability
- Thermowatt construction for low thermal
- Glass passivated junctions and center gate fire for greater parameter uniformity and stability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

Switching applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	200	V
V _{RRM}	Repetitive peak reverse voltage	200	V
I _{T(AV)}	Average on-state current Tc=70 °C	8	Α
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;60HZ;Tc=125℃)	100	Α
$P_{G(AV)}$	Average gate power dissipation Tp=8.3ms;Tc=70 °C	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$ C
T _{stg}	Storage temperature	-40~150	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =25℃		10	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		2.0	IIIA
V_{TM}	On-state voltage	I _{TM} = 16A			1.8	V
I _{GT}	Gate-trigger current	V _D = 12 V; RL=100 Ω			25	mA
V_{GT}	Gate-trigger voltage	V _D = 12 V; RL=100 Ω			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			2.0	°C/W



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