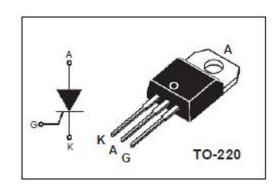


isc Thyristors MCR218-4

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 ℃	8	Α
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;60HZ;Tc=125℃)	100	А
P _{G(AV)}	Average gate power dissipation Tp=8.3ms;Tc=70 ℃	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

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



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

