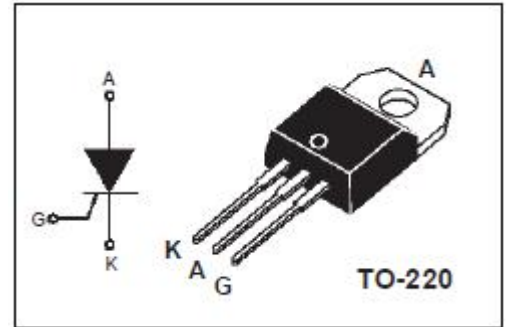


isc Thyristors
MCR310-10G
DESCRIPTION

- 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(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RMS)}	RMS on-state current T _c =70°C	10	A
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;60HZ;T _c =125°C)	100	A
P _{G(AV)}	Average gate power dissipation T _p =8.3ms;T _c =70°C	0.75	W
T _j	Operating junction temperature	-40~110	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}		0.01	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =25°C T _j =125°C	5.0	
V _{TM}	On-state voltage	I _{TM} = 20A		2.2	V
I _{GT}	Gate-trigger current	V _D = 12 V; R _L =100 Ω		200	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V; R _L =100 Ω		1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case		2.2	°C/W