

isc Thyristors

BCR16CM-12LC

DESCRIPTION

- With TO-220 packaging
- Operating in 3 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Solid state relays; heating and cooking appliances
- Switching applications

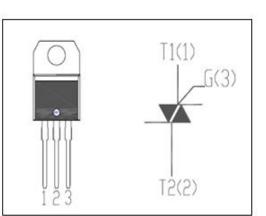
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	МАХ	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RSM)}	Average on-state current @Tc=110°C	16	А
I _{TSM}	Surge non-repetitive on-state current 60HZ	96	А
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
Tj	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25[°]C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	T: 405%0			2.0	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Ij=125 C	Tj=125℃			
V _{TM}	On-state voltage	I _T =25A				1.75	V
I _{GT}	Gate-trigger current	RI =6 Q		Ι		50	mA
				II		50	
				III		50	
V _{GT}	Gate-trigger voltage	V_D =12V;RG=330 Ω ;RL=6 Ω				1.5	V
Rth _(j-c)	Junction to case	Half cycle				1.8	°C/W

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





BCR12PM-14LG

NOTICE:

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