

isc Thyristors

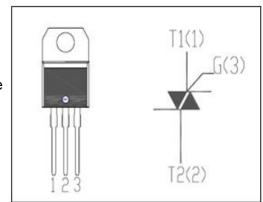
BCR12CM-12LB

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			UNIT
V_{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current @Tc=90℃			А
I _{TSM}	Surge non-repetitive on-state current	60HZ	120	Α
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
T _j	Operating junction temperature			$^{\circ}$ C
T _{stg}	Storage temperature			$^{\circ}$ C

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated; Tj=125℃		T: 405%		2.0	mA
I _{DRM}	Repetitive peak off-state current						
V_{TM}	On-state voltage	I _T =20A				1.6	V
I _{GT}	Gate-trigger current	V_D =6V;RG=330 Ω ;RL=6 Ω II III			50		
				II		50	mA
					50		
V_{GT}	Gate-trigger voltage	V_D =6V;RG=330 Ω ;RL=6 Ω				1.5	V
Rth (j-c)	Junction to case	Half cycle			·	1.8	°C/W



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