

isc Thyristors

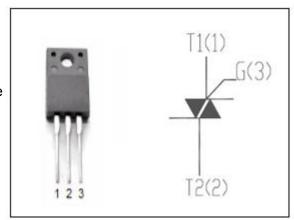
BCR16PM-12LG

DESCRIPTION

- · With TO-220F 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℃)

SYMBOL	PARAMETER	MAX	UNIT	
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage	600	V	
I _{T(AV)}	Average on-state current	16	А	
I _{TSM}	Surge non-repetitive on-state current	60HZ	160	А
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			${\mathbb C}$
T _{stg}	Storage temperature			$^{\circ}$ C



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;				2.0	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	°C				
V_{TM}	On-state voltage	I _τ =25Α				1.5	V
I _{GT}	Gate-trigger current	I				30	
		V_D =6V;R _L =6 Ω ;R _G =330 Ω			30	mA	
		III					30
V_{GT}	Gate-trigger voltage	V_D =6V;R _L =6 Ω ;R _G =330 Ω				1.5	V
Rth (j-c)	Junction to case					2.9	°C/W



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