

isc Thyristors

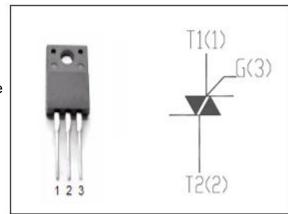
BCR16PM-12LA

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			UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current @Tc=113℃			А
I _{TSM}	Surge non-repetitive on-state current	160	А	
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) @Tc=150℃			W
Tj	Operating junction temperature			$^{\circ}$
T_{stg}	Storage temperature			$^{\circ}$



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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; Tj=2				50	μ А
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	1,		2000		
V _{TM}	On-state voltage	I _τ =25A				1.5	V
I _{GT}	Gate-trigger current	$V_D = 6V; R_L = 6 \Omega; RG = 330 \Omega$ II III			30		
					30	mA	
					30		
V_{GT}	Gate-trigger voltage	V_D =6V;R _L =6 Ω ;RG=330 Ω				1.5	V
Rth (j-c)	Junction to case	Half cycle				3.0	°C/W

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