

isc Thyristors

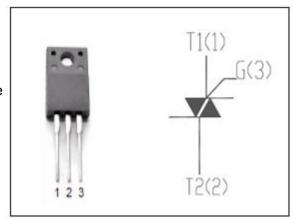
BCR3PM-12LG

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℃)

ABSOLUTE IMAXIMUM RATINGS(Ta-25 C)										
SYMBOL	PARAMETER			UNIT						
V_{DRM}	Repetitive peak off-state voltage			V						
V _{RRM}	Repetitive peak reverse voltage			V						
I _{T(AV)}	Average on-state current			А						
I _{TSM}	Surge non-repetitive on-state current	60HZ	30	A						
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W						
T _j	Operating junction temperature			$^{\circ}$ C						
T _{stg}	Storage temperature			$^{\circ}$						



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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=150	•		0.0	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	C		2.0	mA	
V_{TM}	On-state voltage	I _T =4.5A				1.5	V
I _{GT}	Gate-trigger current	$V_D = 6V; R_L = 6 \Omega; R_G = 330 \Omega$ II III			20		
				II		20	mA
					20		
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	Half cycle		5.2	°C/W		



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