

# isc Thyristors

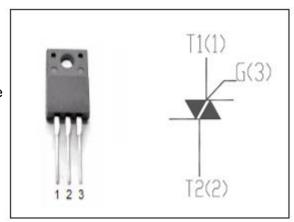
## BCR8PM-12LA

### **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 <sub>RRM</sub>	Repetitive peak reverse voltage			V
I <sub>T(RSM)</sub>	Average on-state current @Tc=113℃			Α
I <sub>TSM</sub>	urge non-repetitive on-state current 60HZ		80	Α
P <sub>G(AV)</sub>	Average gate power dissipation ( over any 20 ms period )   @Tc=150℃			W
Tj	Operating junction temperature			${\mathbb C}$
T <sub>stg</sub>	Storage temperature			$^{\circ}$



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### **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated;	ated; Tj=25℃;			50 2000	μ <b>А</b>
IDRM	Repetitive peak off-state current	V <sub>D</sub> =V <sub>DRM</sub> Rated;					
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> =12A				1.6	V
I <sub>GT</sub>	Gate-trigger current	$V_D = 6V; R_L = 6 \Omega; RG = 330 \Omega$ II III			30		
					30	mA	
					30		
V <sub>GT</sub>	Gate-trigger voltage	V <sub>D</sub> =6V;R <sub>L</sub> =6 Ω ;RG=330 Ω				1.5	V
Rth (j-c)	Junction to case	Half cycle				3.7	°C/W



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