

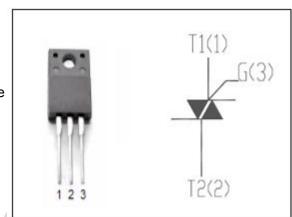
isc Thyristors BCR16PM-14LG

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	700	V
V _{RRM}	Repetitive peak reverse voltage	700	V
I _{T(RSM)}	Average on-state current @Tc=87℃	16	Α
I _{TSM}	Surge non-repetitive on-state current 60HZ	160	Α
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)	0.5	W
Tj	Operating junction temperature	-40~150	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (T_C=25°C 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=150℃				5.0	mA
I _{DRM}	Repetitive peak off-state current						
V_{TM}	On-state voltage	I _T =25A				1.5	V
I _{GT}	Gate-trigger current	I				30	mA
		$V_D = 6V; R_L = 6 \Omega; RG = 330 \Omega$ II			30		
		III				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				3.5	°C/W



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