

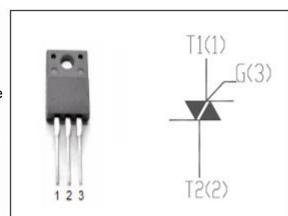
isc Thyristors BCR8FM-16LB

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	800	V	
I _{T(RSM)}	Average on-state current @Tc=	8	Α	
I _{TSM}	Surge non-repetitive on-state current	60HZ	80	Α
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)			W
T _j	Operating junction temperature	0	-40~150	$^{\circ}$
T _{stg}	Storage temperature		-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current Repetitive peak off-state current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated; Tj=150℃			2.0	mA	
V _{TM}	On-state voltage	I _T =12A				1.6	V
I _{GT}	Gate-trigger current	V_D =6V;R _L =6 Ω ,R _G =330 Ω II III			30 30 30	mA	
V _{GT}	Gate-trigger voltage	$V_D = 6V; R_L = 6 \Omega, R_G = 330 \Omega$				1.5	V
Rth _(j-c)	Junction to case	Half cycle				4.3	°C/W

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