

isc Thyristors

INCHANGE SEMICONDUCTOR

BCR16FM-12LB

DESCRIPTION

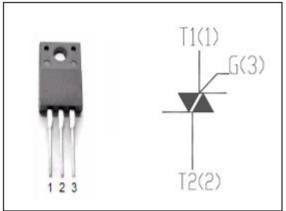
- With TO-220F packaging
- Operating in 3 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Solid state relays; heating and cooking appliances
- Switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	МАХ	UNIT	
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(AV)}	Average on-state current	Tc=98 ℃	16	A
I _{TSM}	Surge non-repetitive on-state current	60HZ	160	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			°C

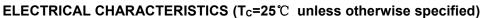




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SYMBOL	PARAMETER	CONDITIONS			MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;					
I _{DRM}	Repetitive peak off-state current			С		2.0	mA
V _{TM}	On-state voltage	I _T =25A				1.5	V
I _{GT}	Gate-trigger current	V _D =6V;R _L =6 Ω ;R _G =330 Ω		Ι		30	mA
				II		30	
		III				30	
V_{GT}	Gate-trigger voltage	V _D =6V;R _L =6 Ω ;R _G =3		1.5	V		
Rth (j-c)	Junction to case					2.9	°C/W



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