

INCHANGE Semiconductor

BCR12PM-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°C)

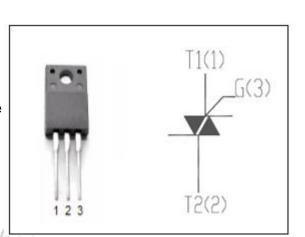
SYMBOL	PARAMETER	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RSM)}	Average on-state current @Tc=92°C	12	Α
I _{TSM}	Surge non-repetitive on-state current 60HZ	120	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
Tj	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25[°]C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	T: 450 %	T: 450%		2000	μA
I _{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; $T_j = 150^{\circ}C$					
V _{TM}	On-state voltage	I _T =20A				1.5	V
I _{GT}	Gate-trigger current	I V _D =6V;R _L =6 Ω;RG=330 Ω II III III			30		
				II		30	mA
					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				4.0	°C/W

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