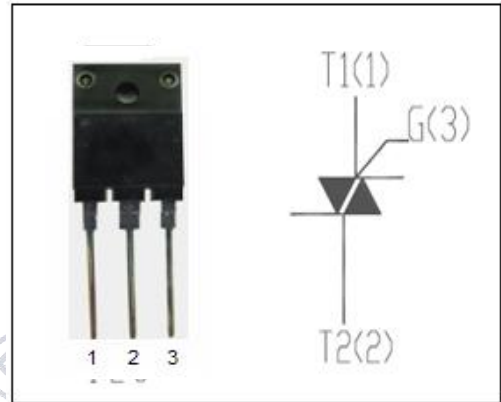


isc Thyristors
BCR40RM-12LB
DESCRIPTION

- With TO-3PML packaging
- High operating junction temperature
- Very high commutation performance maximized at each gate sensitivity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High temperature, high power motor control
- Solid state relays; heating and cooking appliances
- Switching applications


ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RPM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current @T _c =118°C	40	A
I _{TSM}	Surge non-repetitive on-state current	400	A
	50HZ		
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°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 _{RPM} Rated; V _D =V _{DRM} Rated; T _j =125°C		10	mA
I _{DRM}	Repetitive peak off-state current				
V _{TM}	On-state voltage	I _T =60A, t _p =380 μs		1.55	V
I _{GT}	Gate-trigger current	V _D =6V; R _L =6 Ω ; R _G =330 Ω	I	50	mA
			II	50	
			III	50	
V _{GT}	Gate-trigger voltage	V _D =6V; R _L =6 Ω ; R _G =330 Ω		2.5	V

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BCR30AM-12LB



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