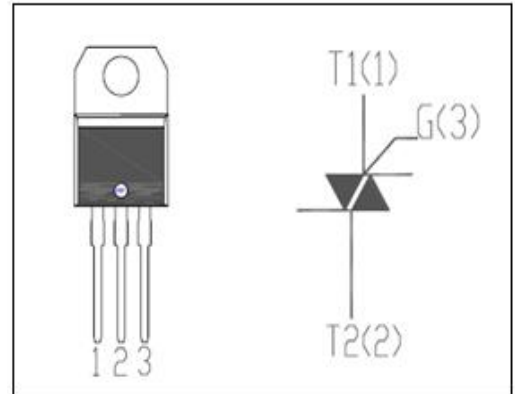


isc Thyristors
BCR10CM-12LB
DESCRIPTION

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

APPLICATIONS

- Switching applications
- Phase control
- Static switching on inductive or resistive load


ABSOLUTE MAXIMUM RATINGS(T_a=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 @T _c =128°C	10	A
I _{TSM}	Surge non-repetitive on-state current 60HZ	100	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

isc Thyristors
BCR10CM-12LB
ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _R RM	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;	T _J =125°C		2.0	mA
I _D RM	Repetitive peak off-state current					
V _{TM}	On-state voltage	I _T =15A			1.5	V
I _{GT}	Gate-trigger current	V _D =6V;R _L =6 Ω ;R _G =330 Ω		I	30	mA
				II	30	
				III	30	
V _{GT}	Gate-trigger voltage	V _D =6V;R _L =6 Ω ;R _G =330 Ω ;			1.5	V
R _{th} (j-mb)	Junction to mounting base	Half cycle			1.8	°C/W

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