

# isc Thyristors

## INCHANGE SEMICONDUCTOR

BCR16CM-12LB

T1(1)

T2(2)

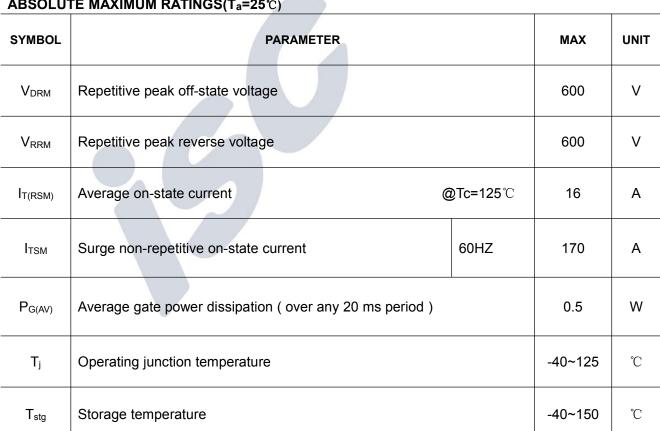
## DESCRIPTION

- · 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(Ta=25°C)





BCR16CM-12LB

SYMBOL	PARAMETER	CONDITIONS			MIN	МАХ	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated;	T:-105°C			0.0	
I <sub>DRM</sub>	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; Tj=125°C				2.0	mA
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> =25A				1.5	V
IGT	Gate-trigger current	V <sub>D</sub> =6V;R <sub>L</sub> =6 Ω;R <sub>G</sub> =330 Ω II   III III			30		
				II		30	mA
					30		
V <sub>GT</sub>	Gate-trigger voltage	$V_{D} = 6V; R_{L} = 6 \Omega; R_{G} = 330 \Omega;$				1.5	V
Rth (j-mb)	Junction to mounting base	Half cycle				1.4	°C/W

## ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

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