

isc Thyristors

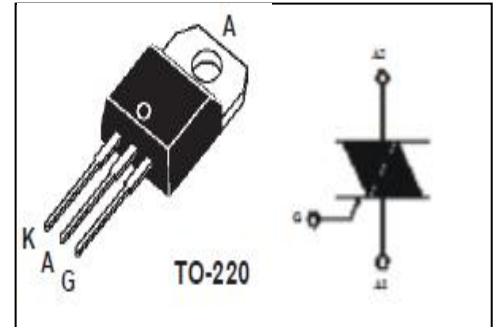
BCR3AM-8

DESCRIPTION

- A triac is a solid state silicon
- AC switch which may be gate triggered from an off-state to an on-state for either polarity of applied voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- AC Switch&Lighting
- Motor Controls
- Solid State Relay

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak reverse voltage	500	V
$I_{\text{T(RMS)}}$	RMS on-state current @ $T_c=86^{\circ}\text{C}$	3	A
I_{TSM}	Surge non-repetitive on-state current (60HZ)	30	A
T_j	Operating junction temperature	-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$ Rated; $V_D=V_{DRM}$ Rated;	$T_j=125^\circ\text{C}$		2	mA
I_{DRM}	Repetitive peak off-state current					
V_{TM}	On-state voltage	$I_{TM}=4.5\text{A}$			1.5	V
I_{GT}	Gate-trigger current	$V_D=6\text{V}; R_L=6\ \Omega; R_G=330\ \Omega$	I		30	mA
			II		30	
			III		30	
V_{GT}	Gate-trigger voltage	$V_D=6\text{V}; R_L=6\ \Omega; R_G=330\ \Omega$	I		1.5	V
			II		1.5	
			III		1.5	

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