

RoHS Compliant Product  
 A suffix of "-C" specifies halogen & lead-free

### MAIN FEATURES

Symbol	Rating	Unit
$I_{T(RMS)}$	0.6	A
$V_{RRM}$	PCR406	400
	PCR606	600

### DESCRIPTION

Logic level sensitive gate triac intended to be interfaced directly to microcontrollers, logic integrated circuits and other low power gate trigger circuits.

### FEATURE

- RMS on-state current to 0.6 A
- General purpose switching

### APPLICATIONS

- General purpose bidirectional switching
- Phase control applications
- Solid state relays

### MARKING

Part Number	Marking
PCR406	406
PCR606	606

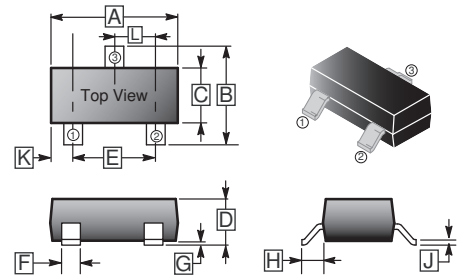
### ORDER INFORMATION

Part Number	Type
PCR406 / PCR606	Lead (Pb)-free
PCR406-C / PCR606-C	Lead (Pb)-free and Halogen-free

### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

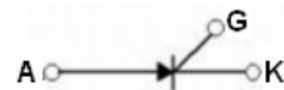
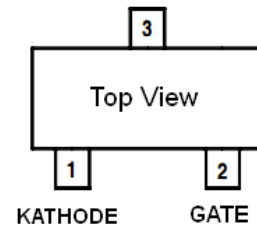
Parameter	Symbol	Rating		Unit	Test Conditions
		Min.	Max.		
On State Voltage	$V_{TM}$	-	1.7	V	$I_{TM}=0.6\text{A}$
Gate Trigger Voltage	$V_{GT}$	-	0.8	V	$V_{AK}=7\text{V}$
Peak Repetitive Forward Blocking Voltage	PCR406	400	-	V	$I_{DRM}=10\mu\text{A}$
	PCR606	600	-		
Holding Current	$I_H$	-	5	mA	$I_T=600\text{mA}, I_G=60\text{mA}$
Gate Trigger Current	$I_{GT}$	5	40	$\mu\text{A}$	$V_{AK}=7\text{V}$
Junction Temperature	$T_J$	-40~125		$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-40~150		$^\circ\text{C}$	

### SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0.09	0.18
B	2.10	2.65	H	0.35	0.65
C	1.20	1.40	J	0.08	0.20
D	0.89	1.17	K	0.6 REF.	
E	1.78	2.04	L	0.95 BSC.	
F	0.30	0.50			

### ANODE



**TYPICAL CHARACTERISTICS**

