

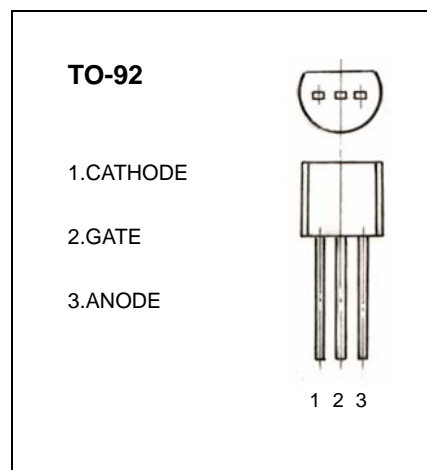


TO-92 Plastic-Encapsulate Thyristor

PCR 0.6 A Silicon Planar pnpn Thyristor

MAIN FEATURES

Symbol	value	unit	
$I_{T(RMS)}$	0.6	A	
V_{DRM}/V_{RRM}	PCR406	400	V
	PCR606	600	
T_J	Junction Temperature	-40 to 125	°C
T_{stg}	Storage Temperature	-40 to 150	°C



DESCRIPTION

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

FEATURES

- Blocking voltage to 400 V (PCR406)
- RMS on-state current to 0.6 A
- General purpose switching

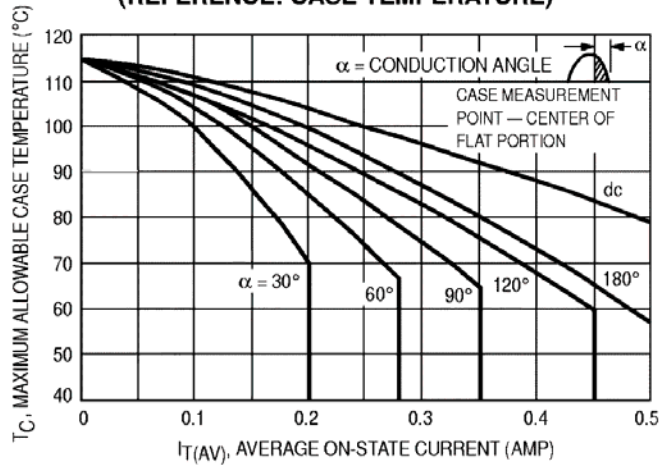
APPLICATIONS

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

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT	
On state voltage	V_{TM}	$I_{TM}=0.6A$		1.7	V	
Gate trigger voltage	V_{GT}	$V_{AK}=7V$		0.8	V	
Repetitive peak off-state voltage	$V_{DRM}(PCR406)$	$I_{DRM}=10\mu A$	400		V	
	$V_{DRM}(PCR606)$		600		V	
Holding current	I_H	$I_{HL}=20\text{ mA}, V_{AK}=7\text{ V}$		5	mA	
Gate trigger current	I_{GT}	$V_{AK}=7V$	A2	5	15	μA
			A1	15	30	μA
			A-1	30	45	μA
			A-2	45	60	μA
			A	60	80	μA
			B	80	120	μA

**FIGURE 1 – MCR100-8 CURRENT DERATING
(REFERENCE: CASE TEMPERATURE)**



**FIGURE 2 – MCR100-8 CURRENT DERATING
(REFERENCE: AMBIENT TEMPERATURE)**

