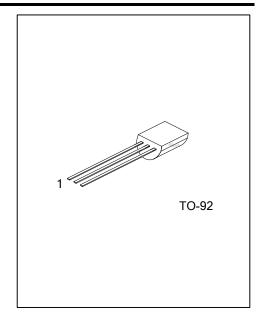
UTC UNISONIC TECHNOLOGIES CO., LTD

PCR406 SCR

SCRS

DESCRIPTION

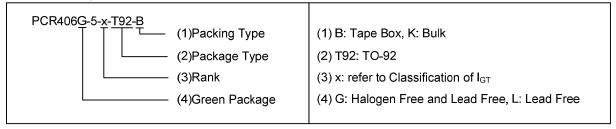
The UTC PCR406 silicon controlled rectifiers are high performance planner diffused PNPN devices. These parts are intended for low cost high volume applications.



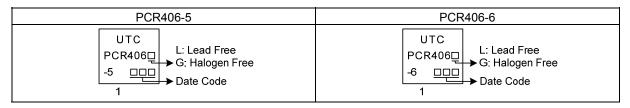
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
PCR406L-5-x-T92-B	PCR406G-5-x-T92-B	TO-92	K	G	Α	Tape Box	
PCR406L-5-x-T92-K	PCR406G-5-x-T92-K	TO-92	K	G	Α	Bulk	
PCR406L-6-x-T92-B	PCR406G-6-x-T92-B	TO-92	K	G	Α	Tape Box	
PCR406L-6-x-T92-K	PCR406G-6-x-T92-K	TO-92	K	G	Α	Bulk	

Note: Pin Assignment: K: Cathode G: Gate A: Anode



MARKING



www.unisonic.com.tw 1 of 3

■ ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Off-State Voltage	PCR406-5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	300	V
$(T_{OPR} = -40^{\sim} +125^{\circ}C, R_{GK} = 1k\Omega)$	PCR406-6	V_{DRM}	400	V
On State Current (T _C =40°C)		I _{T(RMS)}	0.8	Α
Average On State Current (Half Cycle=180, T _C =40°C)		I _{T(AV)}	0.5	Α
Peak Reverse Gate Voltage (I _{GR} =10uA)		V_{GRM}	1	V
Peak Gate Current (10us Max.)		I _{GM}	0.1	Α
Gate Dissipation (20ms Max.)		$P_{G(AV)}$	150	mW
Operating Temperature		T _{OPR}	-40 ~ +125	°C
Storage Temperature		T _{STG}	-40 ~ +125	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Off State Leakage Current	T _J =125°C	1	$V_{DRM}(R_{GK}=1K\Omega)$			0.1	mA
	TJ=25°C	I _{DRM}	$V_{DRM}(R_{GK}=1K\Omega)$			1.0	μΑ
On State Voltage		\/_	I _T =0.4A			1.4	V
On State Voltage		V _T	I _T =0.8A			2.2	V
On State Threshold Voltage	T _J =125°C	$V_{T(TO)}$				0.95	V
On State Slops Resistance	T _J =125°C	Rt				600	m
Gate Trigger Current		I _{GT}	V _D =7V			200	μΑ
Gate Trigger Voltage		V_{GT}	V _D =7V			8.0	V
Holding Current		I _H	R _{GK} =1KΩ			5	mΑ
Latching Current		hing Current I _L R _{GK} =				6	mΑ
Gate Controlled Delay Time		T_GD	I _G =10mA, dIG/dt=0.1A/μs,			2.2	μs
Commutated Turn-Off Time T _J =85°C		T_G	$V_D=0.67 \times V_{DRM}, V_R=35V, I_T=I_{T(AV)}$			200	μs

■ CLASSIFICATION OF I_{GT}

RANK	В	С	AA	AB	AC	AD
RANGE	50-100µA	100-200µA	8-15µA	15-20µA	20-25µA	25-50µA

PCR406 scr

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.