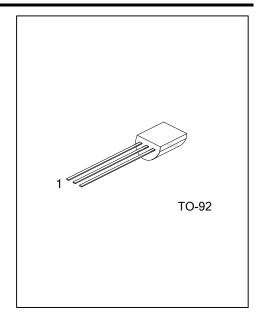
UNISONIC TECHNOLOGIES CO., LTD

PCR406 SCR

SCRS

DESCRIPTION

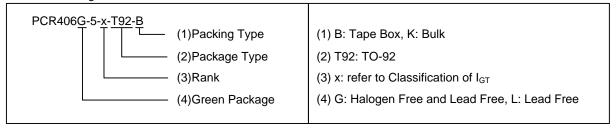
The UTC PCR406 silicon controlled rectifiers are high performance planner diffused PNPN devices. These parts are intended for low cost high volume applications.



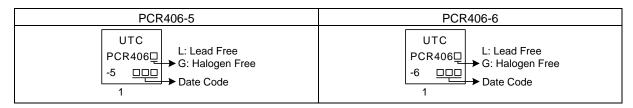
ORDERING INFORMATION

Ordering Number		Doolsons	Pin Assignment			De akin n	
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



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ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Off-State Voltage	PCR406-5	V _{DRM}	300	V
$(T_{OPR} = -40 \sim +125 ^{\circ}C, R_{GK} = 1k\Omega)$	PCR406-6		400	V
On State Current (T _C =40°C)	I _{T(RMS)}	0.8	Α	
Average On State Current (Half Cycle=180,	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 1	T _J =125°C	I _{DRM}	$V_{DRM}(R_{GK}=1K\Omega)$			0.1	mΑ
	T _J =25°C		$V_{DRM}(R_{GK}=1K\Omega)$			1.0	μΑ
On State Voltage		V _T	I _T =0.4A			1.4	٧
			I _T =0.8A			2.2	٧
On State Threshold Voltage	T _J =125°C	$V_{T(TO)}$				0.95	٧
On State Slops Resistance	T _J =125°C	R _t				600	m
Gate Trigger Current		I _{GT}	V _D =7V			200	μΑ
Gate Trigger Voltage		V_{GT}	V _D =7V			0.8	V
Holding Current		I _H	$R_{GK}=1K\Omega$			5	mΑ
Latching Current		IL	$R_{GK}=1K\Omega$			6	mΑ
Gate Controlled Delay Time		T_GD	I _G =10mA, dIG/dt=0.1A/μs,			2.2	μs
Commutated Turn-Off Time	TJ=85°C	T _G	$V_D=0.67 \times V_{DRM}, V_R=35 V, I_T=I_{T(AV)}$			200	μs

■ CLASSIFICATION OF I_{GT}

RANK	А	В	С
RANGE	10-60µA	50-100µA	100-200µA

PCR406 SCR

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