

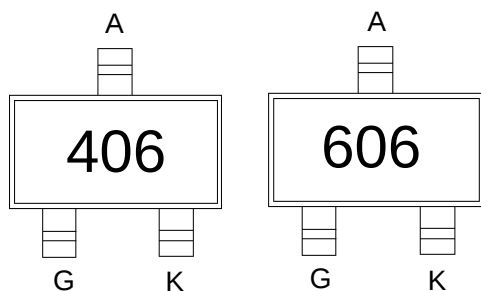
Silicon Planar PNP Thyristor

Features

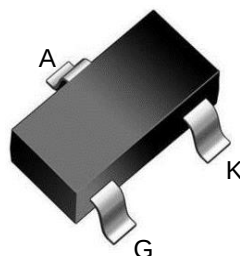
- RMS on-state current to 0.6 A
- General purpose switching

Features

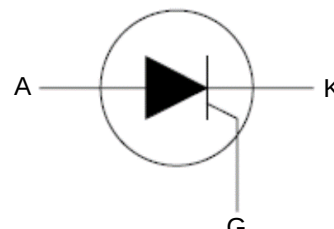
- General purpose switching
- Phase control applications
- Solid state relays



Marking and pin assignment



SOT-23 top view



Equivalent Circuit



Pb-Free



RoHS



Halogen-Free

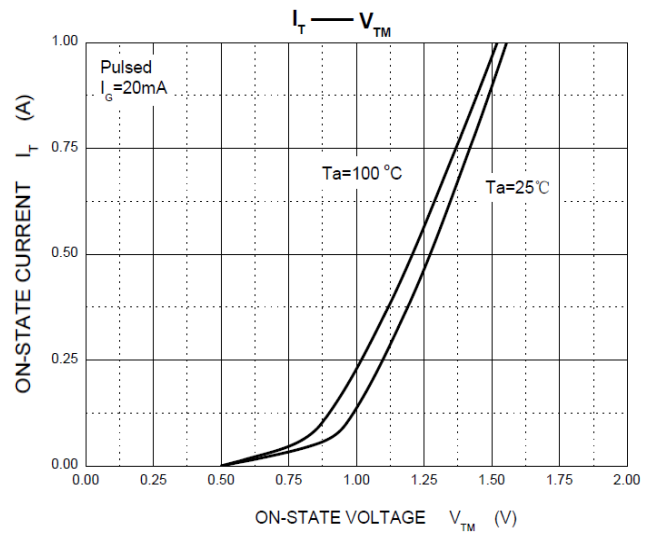
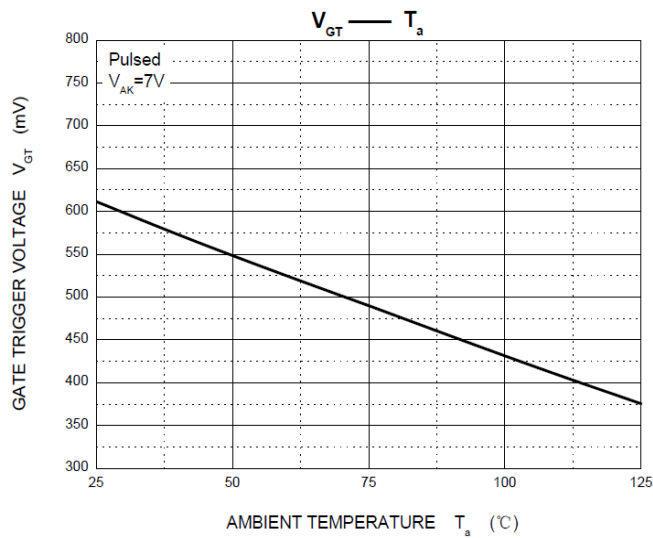
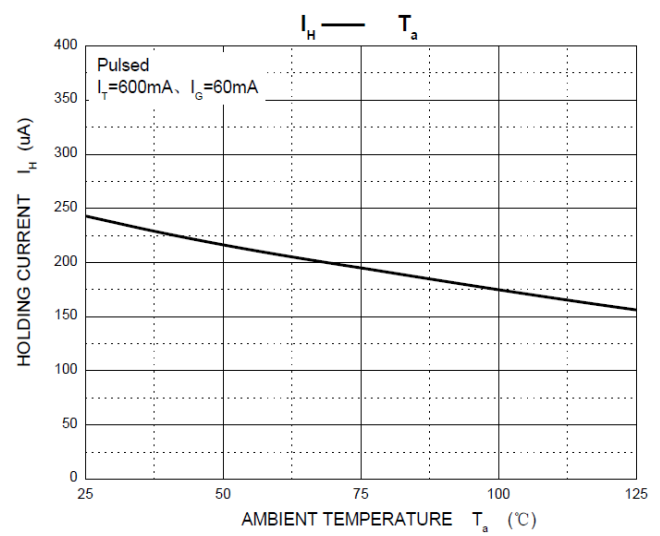
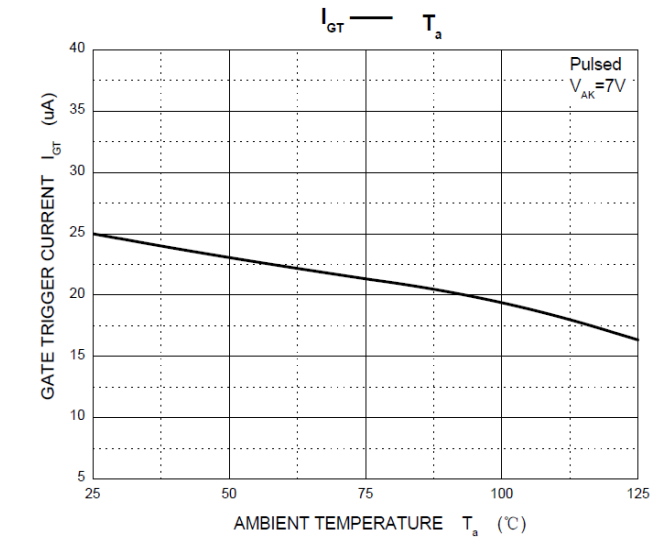
Maximum Ratings(Ta=25°C unless otherwise noted)

Symbol	Parameter		Value	Unit
$I_{T(RMS)}$	RMS on-state current		0.6	V
V_{DRM}	Repetitive peak off-state voltage	PCR406	400	V
		PCR606	600	V
T_j	Junction Temperature		-40~+125	°C
T_{stg}	Storage Temperature		-40~+150	°C

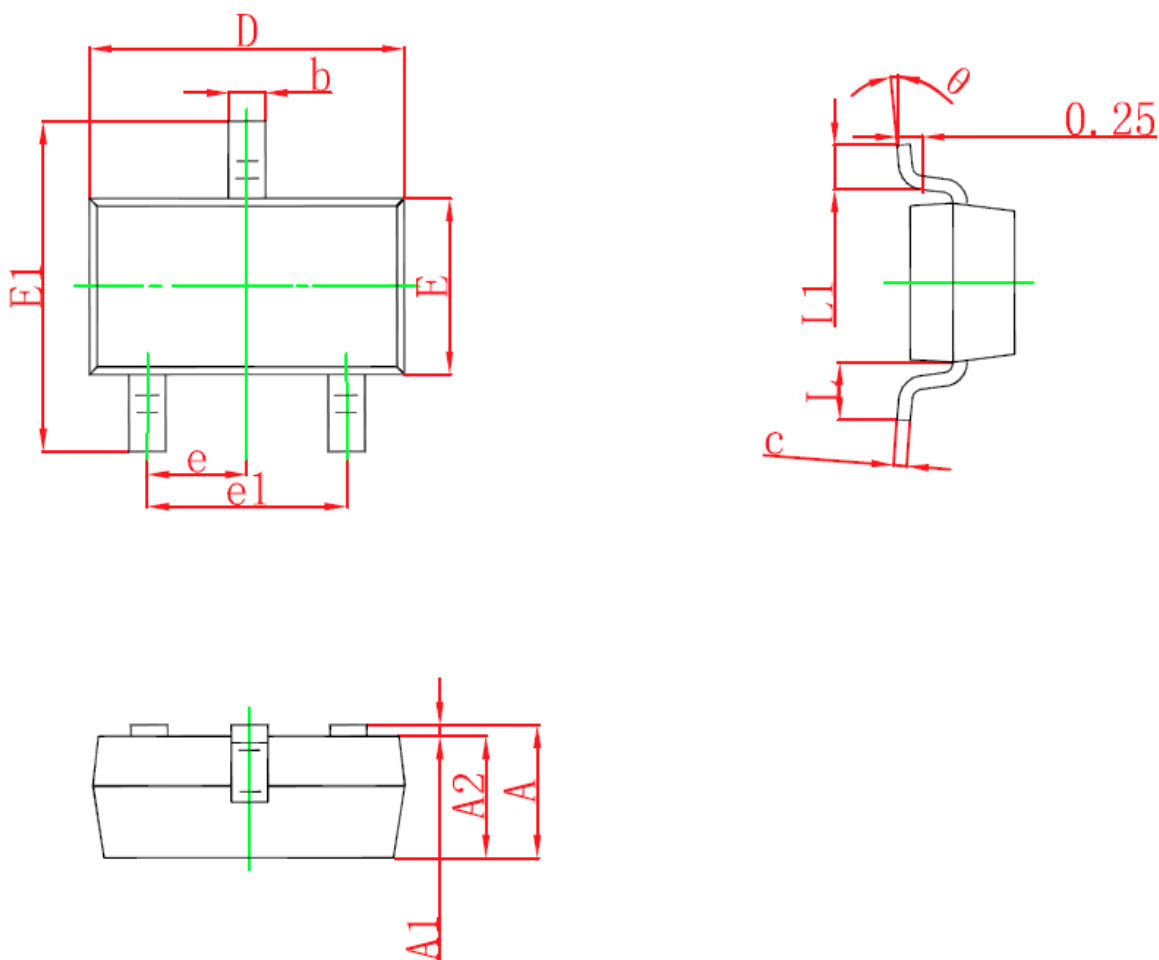
Electrical Characteristics(Ta=25°C unless otherwise noted)

Symbol	Parameter		Test conditions	Min.	Max.	Unit
V_{TM}	On state voltage		$I_{TM}=0.6A$	-	1.7	V
V_{GT}	Gate trigger voltage		$V_{AK}=7V$	-	0.8	V
V_{DRM}	Repetitive peak off-state voltage	PCR406	$I_{DRM}=10\mu A$	400	-	V
		PCR606	$I_{DRM}=10\mu A$	600	-	V
I_H	Holding current		$I_T=600mA, I_G=60mA$	-	5	mA
I_{GT}	Gate trigger current		$V_{AK}=7V$	5	40	μA

Typical Operating Characteristics



SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°