



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT SWITCHING DIODE

VOLTAGE 80 Volts CURRENT 0.1 Ampere

CHP202KPT

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SOT-23)
- * High speed. (TRR=2.5nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 230mW.
- * Peak forward current is 300mA.

CONSTRUCTION

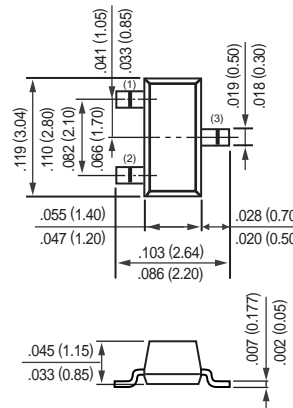
- * Silicon epitaxial planar

MARKING

- * A1



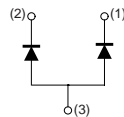
SOT-23



Dimensions in inches and (millimeters)

SOT-23

CIRCUIT



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	CHP202KPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	80	Volts
Maximum RMS Voltage	VRMS	56	Volts
Maximum DC Blocking Voltage	VDC	80	Volts
Maximum Average Forward Rectified Current	Io	0.1	Amps
Peak Forward Surge Current at 1uSec.	IFSM	4.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	3.5	pF
Maximum Reverse Recovery Time (Note 2)	TRR	4.0	nSec
Maximum Operating Temperature Range	TJ	+150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	CHP202KPT	UNITS
Maximum Instantaneous Forward Voltage at If= 100mA	VF	1.20	Volts
Maximum Average Reverse Current at Vr= 70V	IR	0.1	uAmps

- NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 6.0 volts.
 2. Measured at applied forward current of 5mA and reverse voltage of 6.0 volts.
 3. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CHP202KPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

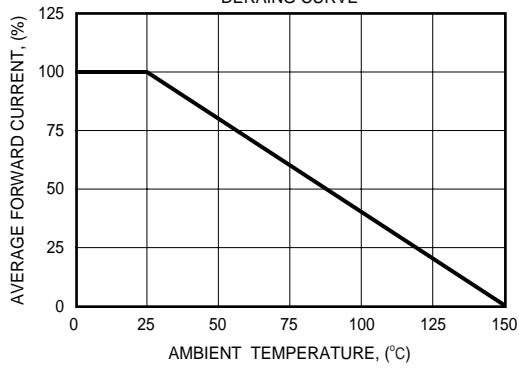


FIG. 2 - FORWARD CHARACTERISTICS

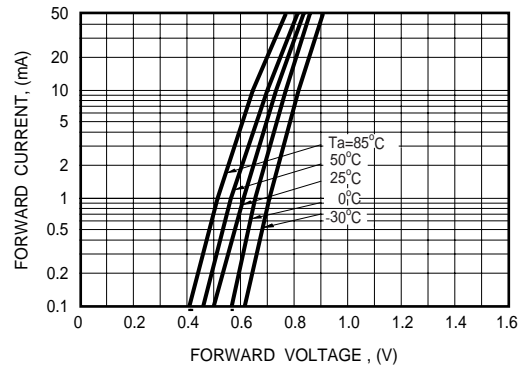


FIG. 3 - REVERSE CHARACTERISTICS

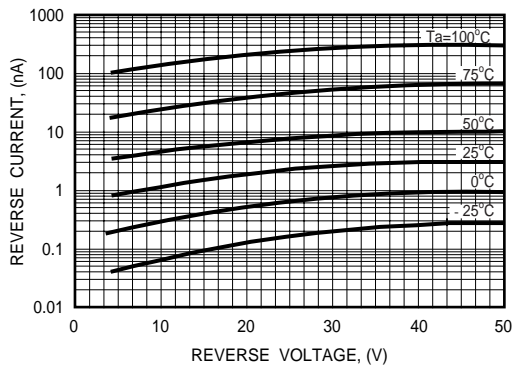


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

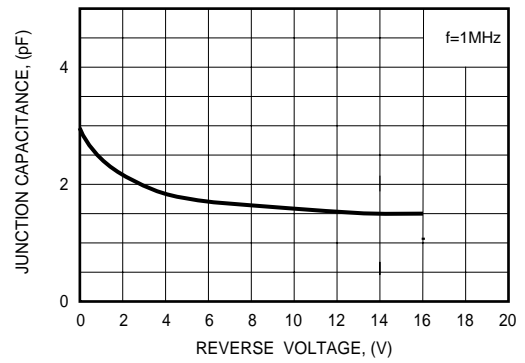


FIG. 5 - REVERSE RECOVERY TIME

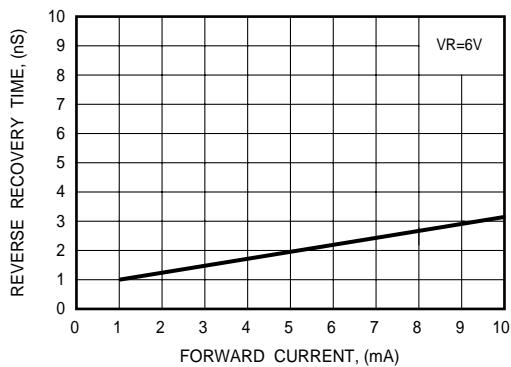


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

