



CHENMKO ENTERPRISE CO.,LTD

**SURFACE MOUNT
SWITCHING DIODE**

VOLTAGE 90 Volts CURRENT 0.1 Ampere

1SS400PT

Lead free devices

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SC-79/SOD-523)
- * High speed. ($T_{RR}=1.2\text{nSec}$ Typ.)
- * Suitable for high packing density.
- * Peak forward current is 225mA.
- * Lead free devices

CONSTRUCTION

- * Silicon epitaxial planar

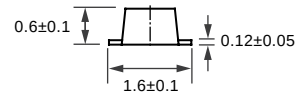
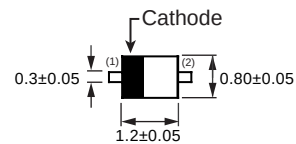
MARKING

- * 6

CIRCUIT



SC-79/SOD-523



Dimensions in millimeters

SC-79/SOD-523

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	1SS400PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	90	Volts
Maximum RMS Voltage	V_{RMS}	63	Volts
Maximum DC Blocking Voltage	V_{DC}	80	Volts
Maximum Average Forward Rectified Current	I_o	0.1	Amps
Peak Forward Surge Current at 1Sec.	I_{FSM}	0.5	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	3.0	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nSec
Maximum Operating Temperature Range	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	1SS400PT	UNITS
Maximum Instantaneous Forward Voltage at $I_F = 100\text{mA}$	V_F	1.20	Volts
Maximum Average Reverse Current at $V_R = 80\text{V}$	I_R	0.1	μAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0.5 volts.
2. Measured at applied forward current of 10mA , reverse voltage of 6.0 volts and $R_L=100$ ohms.
3. ESD sensitive product handling required.

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RATING CHARACTERISTIC CURVES (1SS400PT)

FIG. 1 - SURGE CURRENT CHARACTERISTICS

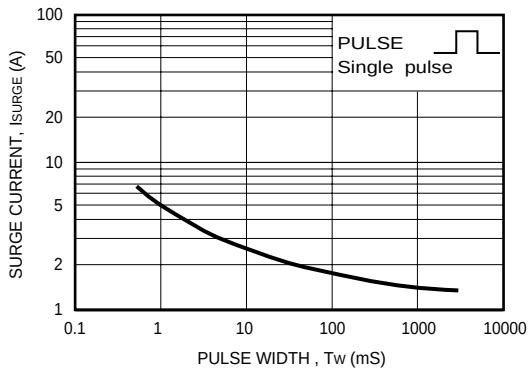


FIG. 2 - FORWARD CHARACTERISTICS

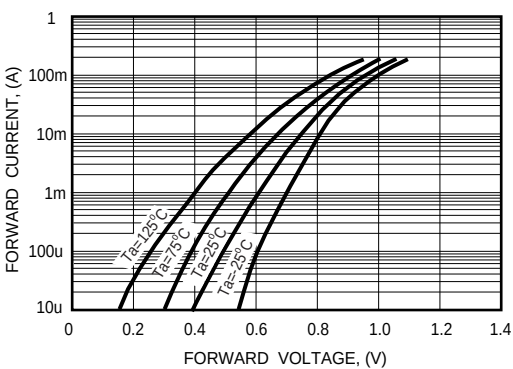


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

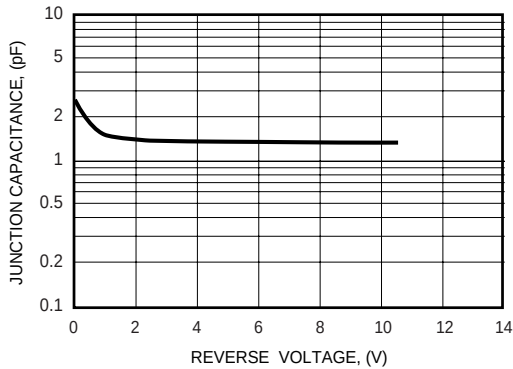


FIG. 4 - REVERSE CHARACTERISTICS

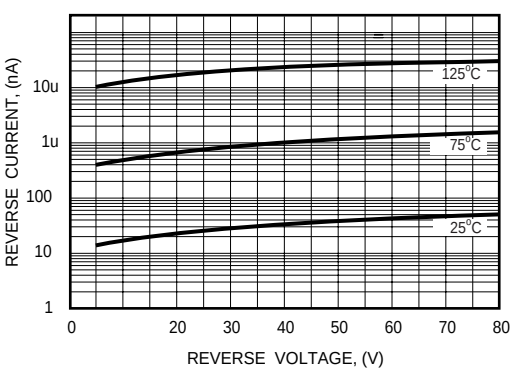


FIG. 5 - REVERSE RECOVERY TIME

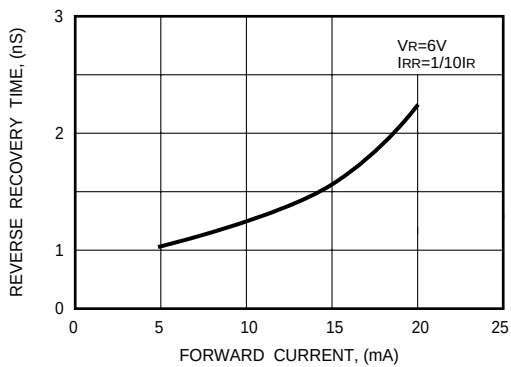


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

