



**CHENMKO ENTERPRISE CO.,LTD**

*Halogens free devices*

**SURFACE MOUNT  
SWITCHING DIODE**

**VOLTAGE 40 Volts CURRENT 0.1 Ampere**

**1SS380GP**

**APPLICATION**

\* Ultra high speed switching

**FEATURE**

- \* Small surface mounting type. (SC-76/SOD-323)
- \* High speed. (TRR=1.5nSec Typ.)
- \* Suitable for high packing density.
- \* Maximum total power dissipation is 150mW.
- \* Peak forward current is 200mA.

**CONSTRUCTION**

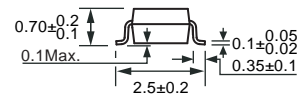
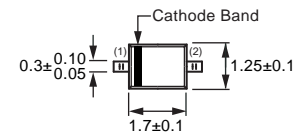
\* Silicon epitaxial planar

**MARKING**

\* 6D



**SC-76/SOD-323**



Dimensions in millimeters

**SC-76/SOD-323**

**CIRCUIT**



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

RATINGS	SYMBOL	1SS380GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	40	Volts
Maximum RMS Voltage	VRMS	35	Volts
Maximum DC Blocking Voltage	VDC	28	Volts
Maximum Average Forward Rectified Current	Io	100	mAmps
Peak Forward Surge Current at 1Sec.	IFSM	400	mAmps
Typical Junction Capacitance between Terminal (Note 1)	CJ	5.0	pF
Maximum Reverse Recovery Time (Note 2)	TRR	4.0	nSec
Maximum Operating Temperature Range	TJ	+125	°C
Storage Temperature Range	TSTG	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	1SS380GP	UNITS
Maximum Instantaneous Forward Voltage at If= 100mA	VF	1.2	Volts
Maximum Average Reverse Current at VR= 20V	IR	10	nAmps

- NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0.5 volts.  
 2. Measured at applied forward current of 10mA and reverse voltage of 6.0 volts.  
 3. ESD sensitive product handling required.

## RATING CHARACTERISTIC CURVES ( 1SS380GP )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURRENT

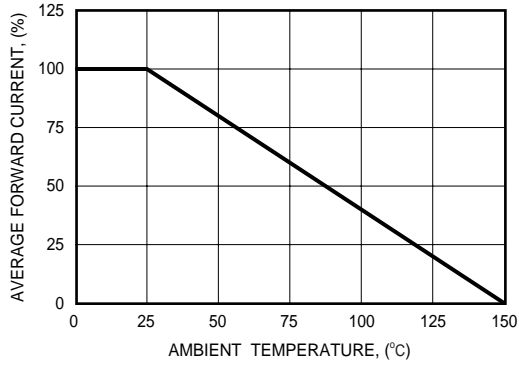


FIG. 2 - FORWARD CHARACTERISTICS

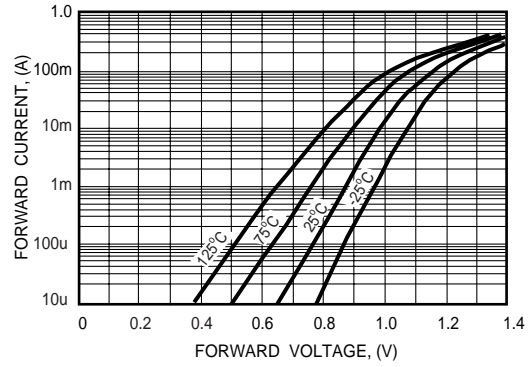


FIG. 3 - REVERSE CHARACTERISTICS

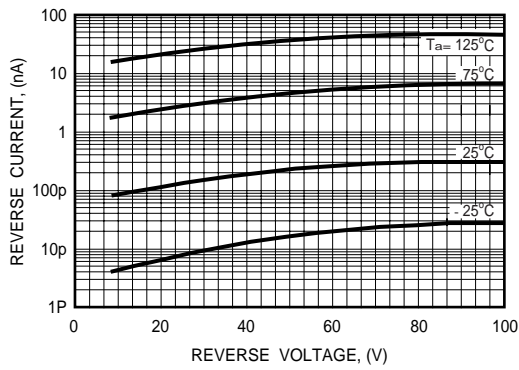


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

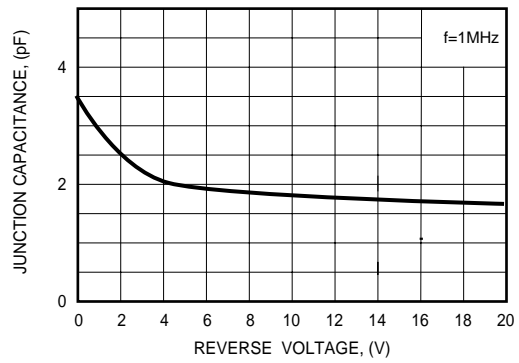


FIG. 5 - REVERSE RECOVERY TIME

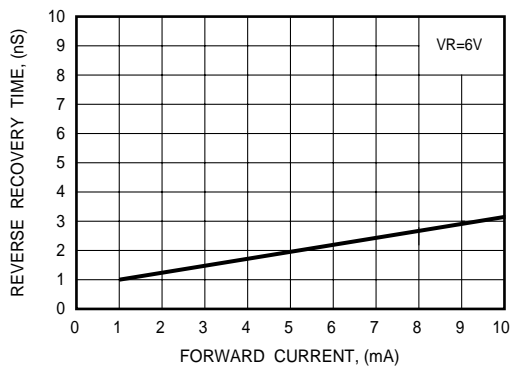


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

