



CHE NMKO ENTERPRISE CO., LTD

SURFACE MOUNT

SWITCHING DIODE

VOLTAGE 90 Volts CURRENT 0.1 Ampere

1SS355PT

Lead free devices

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SC-76/SOD-323)
- * High speed. (TRR=1.2nSec Typ.)
- * Suitable for high packing density.
- * Peak forward current is 225mA.
- * High reliability with high surge current handling capability.
- * Lead free devices

CONSTRUCTION

- * Silicon epitaxial planar

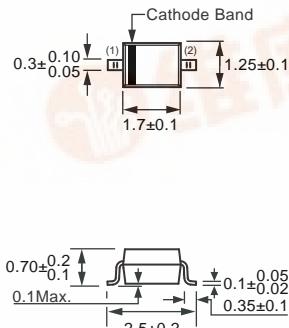
MARKING

- * 5D

CIRCUIT



SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

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

RATINGS	SYMBOL	1SS355PT	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)	TRR	4.0	nSec
Maximum Operating Temperature Range	T _J	+125	°C
Storage Temperature Range	T _{STG}	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	1SS355PT	UNITS
Maximum Instantaneous Forward Voltage at I _F = 100mA	V _F	1.20	Volts
Maximum Average Reverse Current at V _R = 80V	I _R	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 10mA and reverse voltage of 6.0 volts.

3. ESD sensitive product handling required.

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RATING CHARACTERISTIC CURVES (1SS355PT)

FIG. 1 - FORWARD CHARACTERISTICS

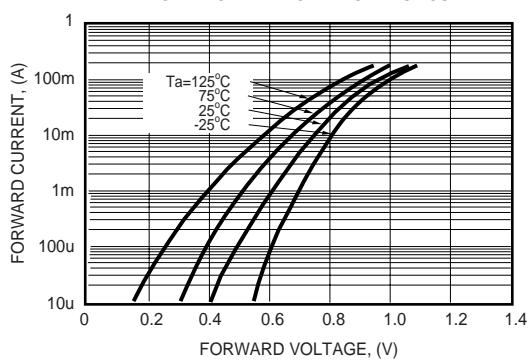


FIG. 2 - REVERSE CHARACTERISTICS

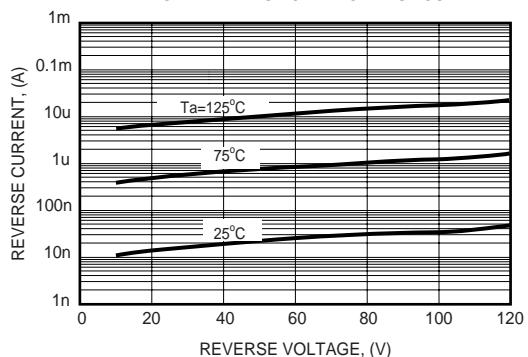


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

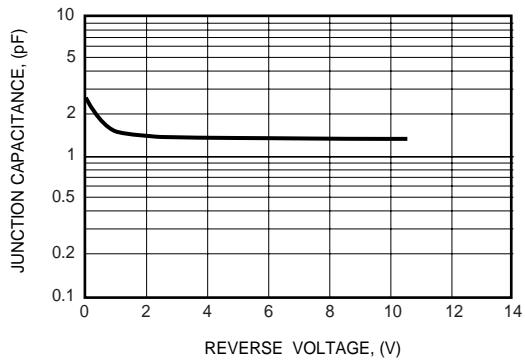


FIG. 4 - REVERSE RECOVERY TIME CHARACTERISTICS

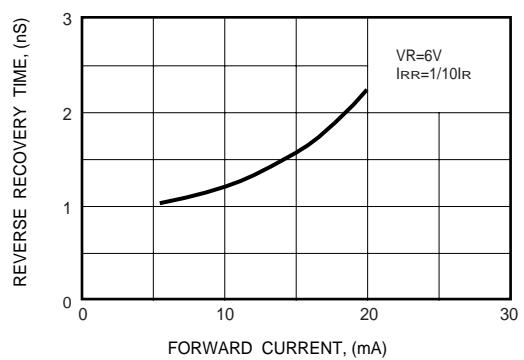


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

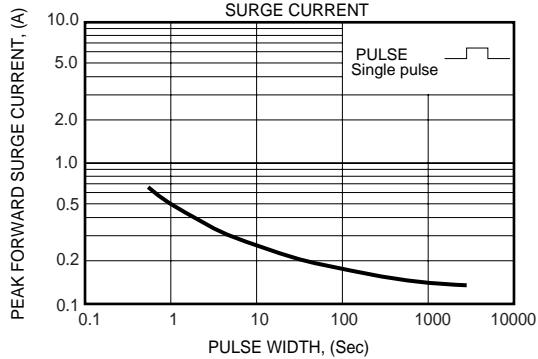


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

