



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 150 Volts CURRENT 0.2 Ampere

SSM02150SPT

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * High current capability, low forward voltage drop
- * High surge capability

MECHANICAL DATA

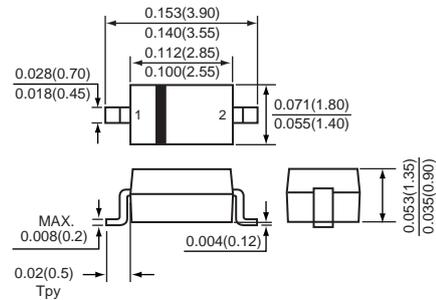
Case: JEDEC SOD-123 molded plastic

Polarity: Color band denotes cathode end

Weight: 0.001 ounce 0.032 gram



SOD-123



Dimensions in inches and (millimeters)

SOD-123

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	SSM02150SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	Volts
Maximum RMS Voltage	V _{RMS}	105	Volts
Maximum DC Blocking Voltage	V _{DC}	150	Volts
Maximum Average Forward Rectified Current at T _L = 90°C	I _O	0.2	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) T _L = 70°C	I _{FSM}	30	Amps
Typical Junction Capacitance (Note 2)	C _J	15	pF
Typical Thermal Resistance (Note 1)	R _{θJL}	80	°C / W
Storage and Operating Temperature Range	T _J , T _{STG}	-65 to +125	°C

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

CHARACTERISTICS	SYMBOL	SSM02150SPT	UNITS
Maximum Instantaneous Forward Voltage at 0.2 A DC	V _F	0.60	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	50	uAmps
	@ TA = 100°C	5	mAmps

NOTES : 1. Thermal Resistance (Junction to Lead) : PC Board Mounted on 0.2 X 0.2" (5 X 5mm) copper pad area.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2006-1

RATING CHARACTERISTIC CURVES (SSM02150SPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

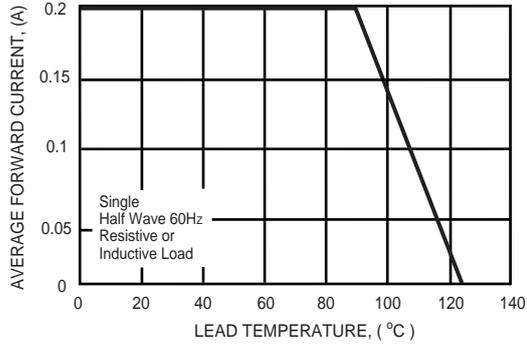


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

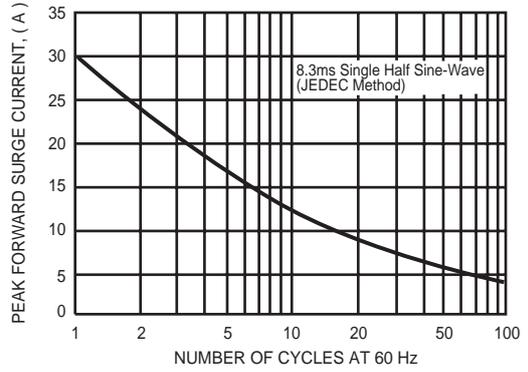


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

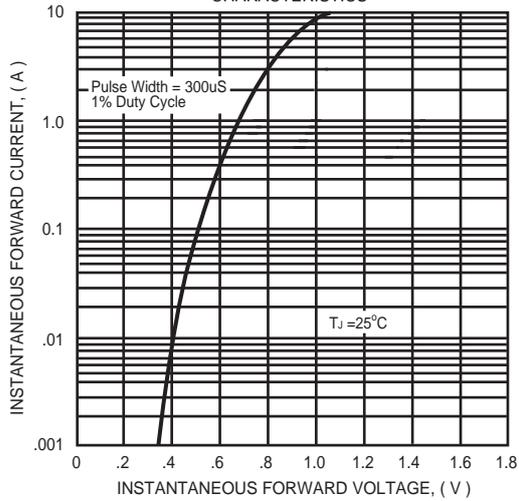


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

