



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 Volts CURRENT 3.0 Amperes

CHSDCFJGP

Halogens free devices

FEATURES

- * □ Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- * □ For surface mounted applications
- * □ Low profile package
- * □ Metal silicon junction, majority carrier conduction
- * □ Low power loss, high efficiency
- * □ High current capability, low forward voltage drop
- * □ High surge capability
- * □ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

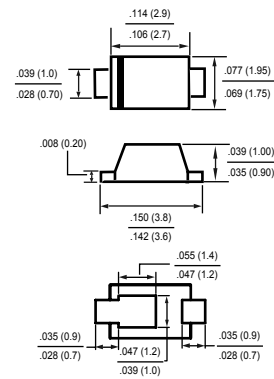
MARKING

* 36

CIRCUIT



SOD-123J



Dimensions in inches and (millimeters)

SOD-123J

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

RATINGS	SYMBOL	CHSDCFJGP	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	Volts
Maximum RMS Voltage	V _{RMS}	48	Volts
Maximum DC Blocking Voltage	V _{DC}	60	Volts
Maximum Average Forward Rectified Current	I _O	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80	Amps
Typical Junction Capacitance (Note 1)	C _J	250	pF
Typical Thermal Resistance	R _{θJL}	65	°C / W
Operating Temperature Range	T _J	-65 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	CHSDCFJGP	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC	V _F	0.7	Volts
Maximum Average Reverse Current at V _R = 60V	I _R	500	uAmps

NOTES : 1. □ Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2009-09

RATING CHARACTERISTIC CURVES (CHSDCFJGP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

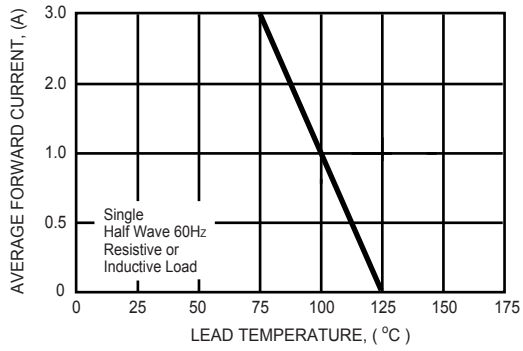


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

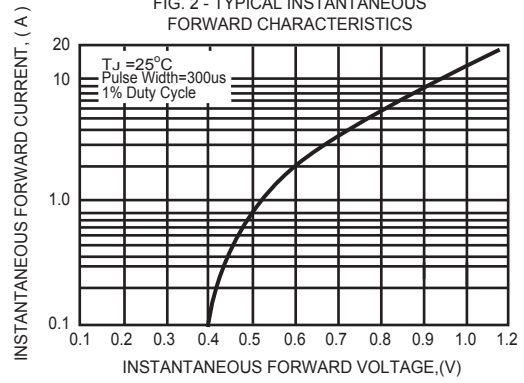


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

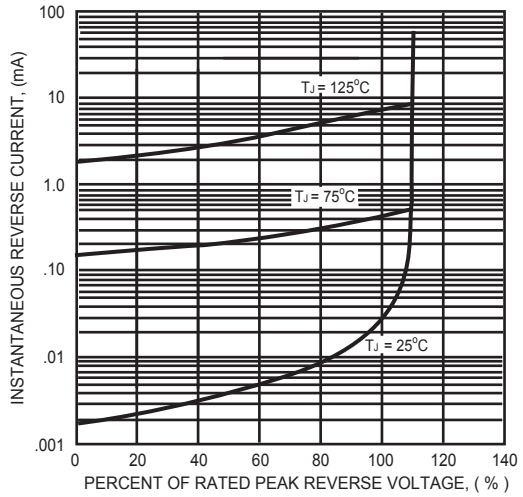


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

