

# Halogens free devices SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIES VOLTAGE RANGE 50 CHENMKO ENTERPRISE CO., LTD

PSM11GP THRU

PSM13GP

VOLTAGE RANGE 50 - 200 Volts CURRENT 0.8 Ampere

## **FEATURES**

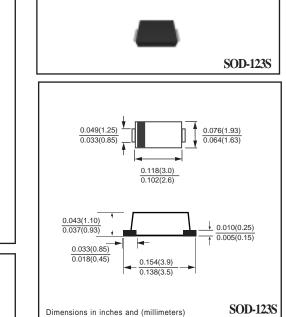
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Superfast recovery times for high efficiency
- Metallurgically bonded construction Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated junction
- High temperature soldering guaranteed : 260°C/10 seconds at terminals

# **MECHANICAL DATA**

Case: JEDEC SOD-123S molded plastic Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Indicated by cathode band Weight: 0.001 ounces, 0.032 gram

# 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 RATINGES ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	PSM11GP	PSM12GP	PSM13GP	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	Volts
Maximum RMS Voltage	VRMS	35	70	140	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	Volts
Maximum Average Forward Rectified Current TL = 120°C	lo	0.8			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	Ігѕм	30			Amps
Typical Junction Capacitance (Note 1)	CJ	15			pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150			°C

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

CHARACTERISTICS		SYMBOL	PSM11GP	PSM12GP	PSM13GP	UNITS
Maximum Instantaneous Forward Voltage at 0.8 A DC		VF	0.95			Volts
Maximum DC Reverse Current	@ TA = 25°C	la.	5.0			uAmps
at Rated DC Blocking Voltage	@ TA = 100°C	IR	50			
Maximum Reverse Recovery Time (Note 2)		trr	35			nSec
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NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts 2. Test Conditions : IF = 0.5 A, IR = -1.0 A, IRR = -0.25 A

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