

# CHENMKO ENTERPRISE CO., LTD

# SURFACE MOUNT GLASS PASSIVATED

HIGH EFFICIENCY SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere



## **FEATURES**

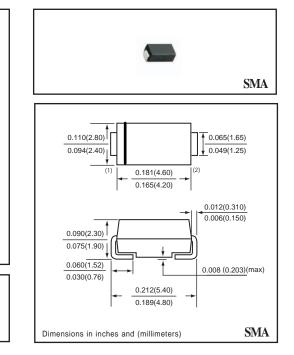
- For surface mounted applications
- Low forward voltage, high current capability
- Low leakage current
- Metallurgically bonded construction Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated junction
- High temperature soldering guaranteed : 260°C/10 seconds at terminals



Case: JEDEC SMA molded plastic Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Indicated by cathode band Weight: 0.002 ounces, 0.064 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	HSM11PT	HSM12PT	HSM13PT	HSM14PT	HSM15PT	HSM16PT	HSM17PT	HSM18PT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TL = 110°C	lo	1.0							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			12			pF		
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150						°C		

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

CHARACTERISTICS	SYMBOL	HSM11PTHSM12P	T HSM13PT	HSM14PT	HSM15PT	HSM16PT	HSM17PT	HSM18PT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	1.0		1.3		1.5	1	.7	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage at TA = 25°C			5.0						uAmps
Maximum Full Load Reverse Current Average, Full Cycle at TA = $55^{\circ}$ C	l R	100							uAmps
Maximum Reverse Recovery Time (Note 2)	trr	50		50		70			nSec

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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