

CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT GLASS PASSIVATED

HIGH EFFICIENCY SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

HBM11PT **THRU** HBM18PT

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

MECHANICAL DATA

Case: JEDEC SMB molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

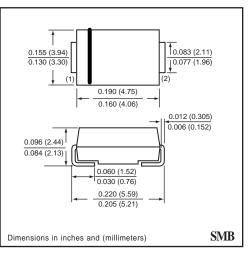
Polarity: Indicated by cathode band Weight: 0.003 ounces, 0.093 gram

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	HBM11PT	HBM12PT	HBM13PT	HBM14PT	HBM15PT	HBM16PT	HBM17PT	HBM18PT	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)	IFSM	30								Amps
Typical Junction Capacitance (Note 1)	Cı	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	HBM11PT HBM12PT HBM13PT	HBM14PT HBM15PT	HBM16PT	НВМ17РТ НВМ18	PT 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							
Maximum Full Load Reverse Current Average, Full Cycle at TA = 55°C	IR 100							
Maximum Reverse Recovery Time (Note 2)	trr	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

2002-5

RATING CHARACTERISTIC CURVES (HBM11PT THRU HBM18PT)

