

# CHENMKO ENTERPRISE CO.,LTD

### SURFACE MOUNT GLASS PASSIVATED

HIGH EFFICIENCY SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 2.0 Amperes

HBM21PT **THRU** HBM28PT

#### **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

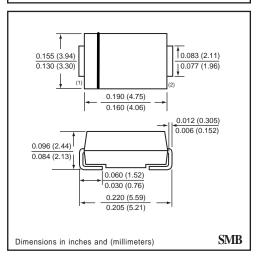
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

# **SMB**



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

RATINGS	SYMBOL	HBM21PT	HBM22PT	HBM23PT	HBM24PT	HBM25PT	HBM26PT	HBM27PT	HBM28PT	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 = 100°C	lo	2.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60						Amps		
Typical Junction Capacitance (Note 1)	Сл	30			20			pF		
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150						°C		

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

CHARACTERISTICS	SYMBOL	НВМ21РТ НВМ22РТ НВМ23РТ	HBM24PTHBM25PT	НВМ26РТ	НВМ27РТ Н	HBM28PT	UNITS	
Maximum Instantaneous Forward Voltage at 2.0 A DC	VF	1.0	1.3	1.3 1.5		7	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage at TA = 25°C	la	5.0						
Maximum Full Load Reverse Current Average, Full Cycle at TA = 55°C	100						uAmps	
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

2004-10

## RATING CHARACTERISTIC CURVES (HBM21PT THRU HBM28PT)

