

CHENMKO ENTERPRISE CO., LTD

SURFACE MOUNT

Lead free devices SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 - 60 Volts CURRENT 3.0 Amperes



FEATURES

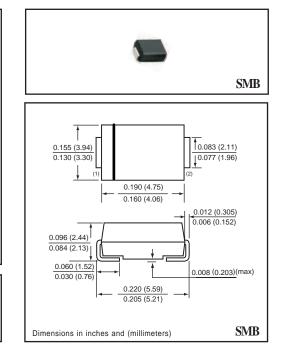
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications 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: Color band denotes cathode end Weight: 0.003 ounce 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	SBM32PT	SBM33PT	SBM34PT	SBM35PT	SBM36PT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	Volts
Maximum RMS Voltage	Vrms	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current	lo	3.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80					Amps
Typical Junction Capacitance (Note 2)	CJ	250					pF
Typical Thermal Resistance (Note 1)	RθJL	17					°C/W
Operating Temperature Range	TJ	-65 to +125 -65 to +150			+150	°C	
Storage Temperature Range	Tstg	-65 to +150					°C

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

CHARACTERISTICS		SYMBOL	SBM32PT	SBM33PT	SBM34PT	SBM35PT	SBM36PT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC		VF	0.55			0.75		Volts
Maximum Average Reverse Current	@ TA = 25°C	la.	0.5					mAmps
at Rated DC Blocking Voltage	@ Ta = 100°C	IR	30					mAmps

NOTES: 1. Thermal Resistance (Junction to Lead): PC Board Mounted on 0.31 X 0.31" (8 X 8mm) copper pad area. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2002-5

