



# CHENMKO ENTERPRISE CO.,LTD

**BAT46BPT**

**SURFACE MOUNT  
SCHOTTKY DIODE**

VOLTAGE 100 Volts CURRENT 75 mAmpere

*Lead free devices*

### FEATURE

- \* Small surface mounting type. (SOD-123)
- \* Suitable for high packing density.
- \* Maximum total power dissipation is 200mW.
- \* Peak forward current is 500mA at time<1.0sec.

### CONSTRUCTION

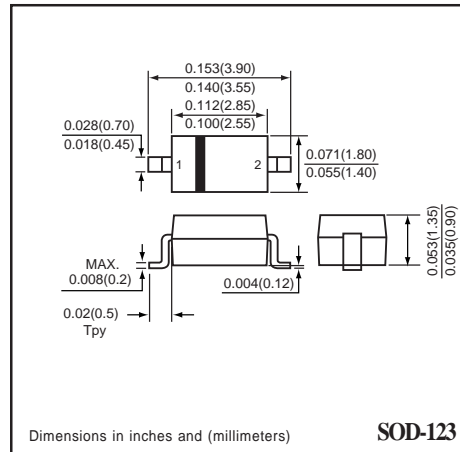
- \* Silicon epitaxial planar

### MARKING

- \* BT3



**SOD-123**



Dimensions in inches and (millimeters)

**SOD-123**

### CIRCUIT



RATINGS	SYMBOL	BAT46BPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	75	mAmps
Peak Forward Surge Current at <10mSec.	I <sub>FSM</sub>	0.75	Amps
Typical Junction Capacitance between Terminal (Note 1)	C <sub>J</sub>	10	pF
Power Dissipation	P <sub>d</sub>	200	mW
Maximum Operating Temperature Range	T <sub>J</sub>	+125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +125	°C

### ELECTRICAL CHARACTERISTICS ( At T<sub>A</sub> = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	BAT46BPT	UNITS
Maximum Instantaneous Forward Voltage I <sub>F</sub> = 0.1mA I <sub>F</sub> = 10mA I <sub>F</sub> = 250mA	V <sub>F</sub>	250 450 1000	mVolts
Maximum Average Reverse Current at V <sub>R</sub> = 75V	I <sub>R</sub>	5.0	uAmps

- NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 1.0 volts.  
2. Measured at applied forward current of 10mA and reverse current of 10mA.  
3. ESD sensitive product handling required.

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