



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT SCHOTTKY DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

BAT43BPT

Lead free devices

APPLICATION

* Ultra high speed switching

FEATURE

- * Small surface mounting type. (SOD-123)
- * High speed. (TRR=5.0nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 200mW.
- * Peak forward current is 500mA at time<1.0sec.

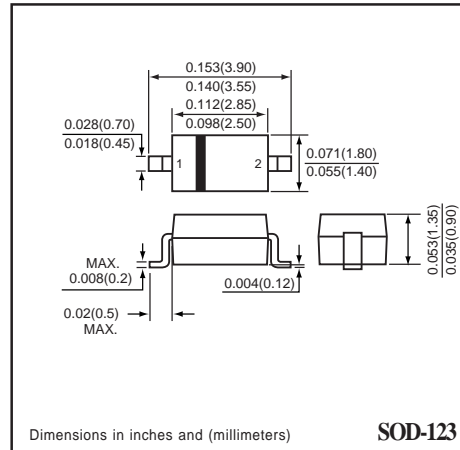
CONSTRUCTION

* Silicon epitaxial planar

MARKING

* BT2

CIRCUIT



RATINGS	SYMBOL	BAT43BPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum DC Blocking Voltage	VDC	30	Volts
Maximum Average Forward Rectified Current	IO	0.2	Amps
Peak Forward Surge Current at <10mSec.	IFSM	4.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	10	pF
Maximum Reverse Recovery Time (Note 2)	TRR	5.0	nSec
Maximum Operating Temperature Range	TJ	+125	°C
Storage Temperature Range	TSTG	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	BAT43BPT	UNITS
Maximum Instantaneous Forward Voltage IF= 2.0mA IF= 15mA IF= 200mA	VF	330 450 1000	mVolts
Maximum Average Reverse Current at VR= 25V	IR	0.5	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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RATING CHARACTERISTIC CURVES (BAT43BPT)

FIG. 1 - FORWARD CHARACTERISTICS

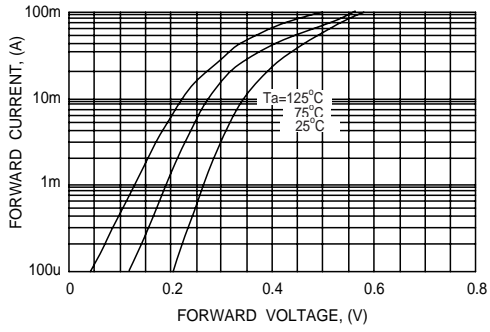


FIG. 2 - REVERSE CHARACTERISTICS

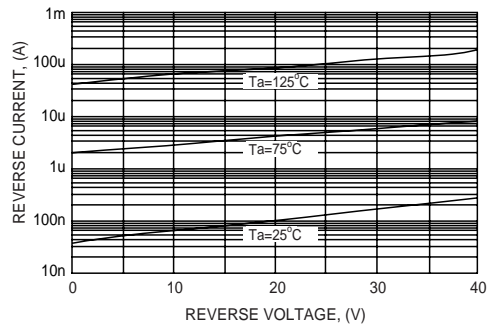


FIG. 3 - TYPICAL FORWARD CURRENT DERATING CURVE

