



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT SCHOTTKY DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere



APPLICATION

- * Ultra high speed switching

FEATURE

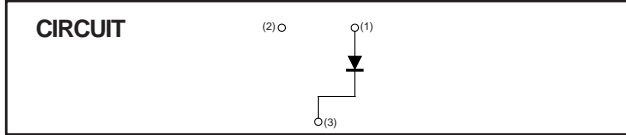
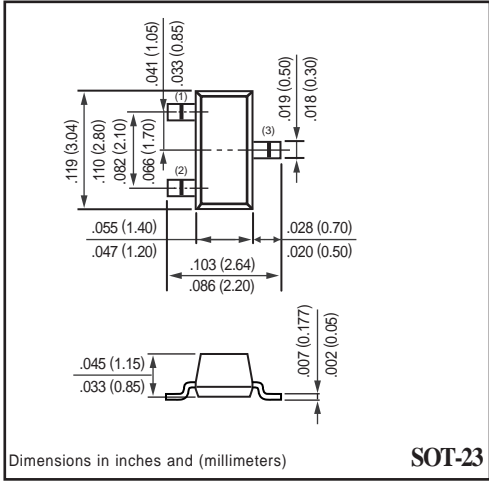
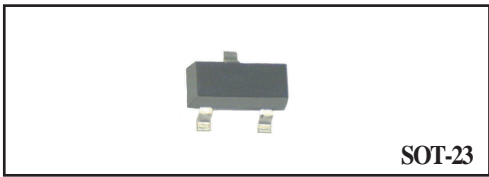
- * Small surface mounting type. (SOT-23)
- * High speed. (TRR=2.5nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 230mW.
- * Peak forward current is 300mA.

CONSTRUCTION

- * Silicon epitaxial planar

MARKING

- * LV4



RATINGS	SYMBOL	BAT54PT	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 1Sec.	IFSM	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	10	pF
Typical Case Resistance (Note 1)	R θJC	307	°C / W
Typical Thermal Resistance (Note 1)	R θJL	354	°C / W
Maximum Reverse Recovery Time (Note 2)	TRR	5.0	nSec
Maximum Operating Temperature Range	TJ	+150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	BAT54PT	UNITS
Maximum Instantaneous Forward Voltage at IF= 100mA	VF	1.0	Volts
Maximum Average Reverse Current at VR= 25V	IR	2.0	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. Thermal Resistance (Junction to Lead) : PC Board Mounted on 0.2 X 0.2" (5 X 5mm) copper pad area.

RATING CHARACTERISTIC CURVES (BAT54PT)

FIG. 1 - FORWARD CHARACTERISTICS

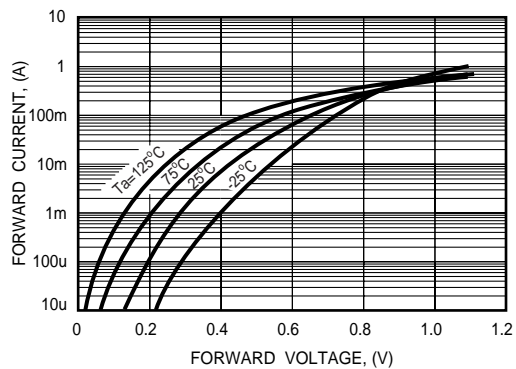


FIG. 2 - REVERSE CHARACTERISTICS

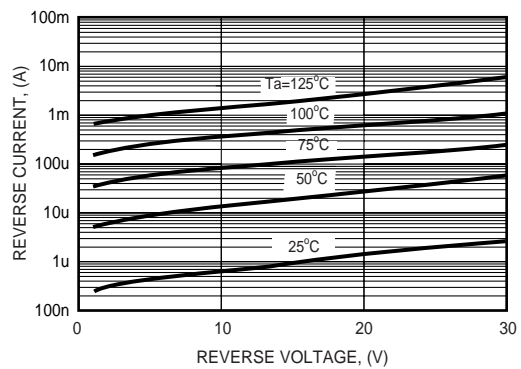


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

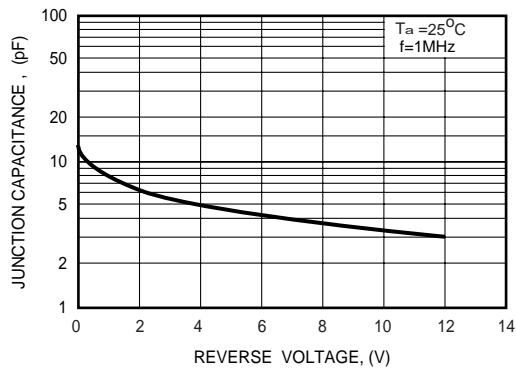


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

