

CHENMKO ENTERPRISE CO.,LTD

BAT54SPT

SURFACE MOUNT

SCHOTTKY DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

APPLICATION

* Ultra high speed switching

FEATURE

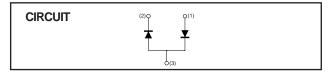
- * Small surface mounting type. (SOT-23)
- * High speed. (TRR=2.5nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power disspation is 230mW.
- * Peak forward current is 300mA.

CONSTRUCTION

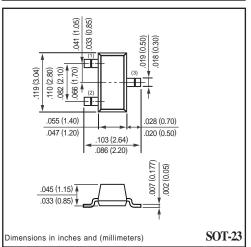
* Silicon epitaxial planar

MARKING

* LD3







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

RATINGS	SYMBOL	BAT54S	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	lo	0.2	Amps
Peak Forward Surge Current at 1Sec.	IFSM	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	Сл	10	pF
Maximum Reverse Recovery Time (Note 2)	Trr	5.0	nSec
Maximum Operating Temperature Range	TJ	+150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C
Thermal Resistance, Junction to Ambient Air (Note 3)	$R_{\theta JA}$	500	°C/W

ELECTRICAL CHARACTERISTICS (At $TA = 25^{\circ}C$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	BAT54S	UNITS
Maximum Instantaneous Forward Voltage at IF= 100mA	VF	1.0	Volts
Maximum Average Reverse Current at VR= 25V	lR	2.0	uAmps

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 1.0 volts.

- 2. Measured at applied froward current of 10mA and reverse current of 10mA.
- 3. Part mounted on FR-4 board with recommended pad layout.
- 4. ESD sensitive product handling required.

2003-4

RATING CHARACTERISTIC CURVES (BAT54SPT)

