



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY DIODE ARRAY

VOLTAGE 30 Volts CURRENT 0.2 Ampere

BAT54JWPT

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SC-88/SOT-363)
- * Suitable for high packing density.
- * Peak forward current is 300mA.

CONSTRUCTION

- * Silicon epitaxial planar

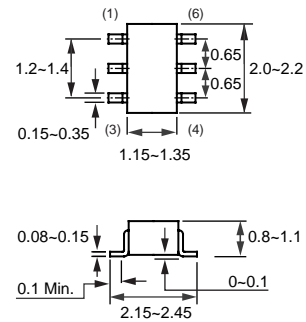
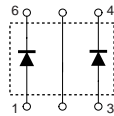
MARKING

- * LV4



SC-88/SOT-363

CIRCUIT



Dimensions in millimeters

SC-88/SOT-363

RATINGS	SYMBOL	BAT54JWPT	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
Maximum Reverse Recovery Time (Note 2)	TRR	5.0	nSec
Maximum Operating Temperature Range	TJ	+150	°C
Storage Temperature Range	TSTG	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	BAT54JWPT	UNITS
Min. Reverse Breakdown Voltage at IR= 100uA	VR	30	Volts
Maximum Instantaneous Forward Voltage at IF= 100uA	VF	240	mVolts
Maximum Instantaneous Forward Voltage at IF= 1mA		320	
Maximum Instantaneous Forward Voltage at IF= 10mA		400	
Maximum Instantaneous Forward Voltage at IF= 30mA		500	
Maximum Instantaneous Forward Voltage at IF= 100mA		1000	
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. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (BAT54JWPT)

FIG. 1 - FORWARD CHARACTERISTICS

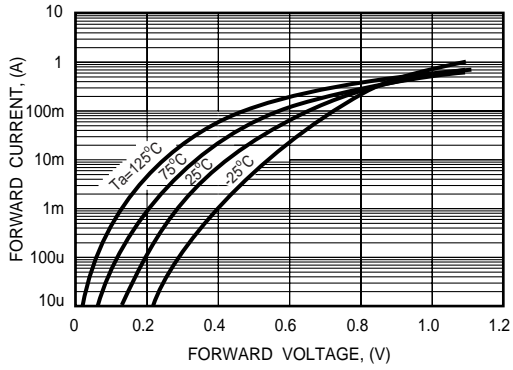


FIG. 2 - REVERSE CHARACTERISTICS

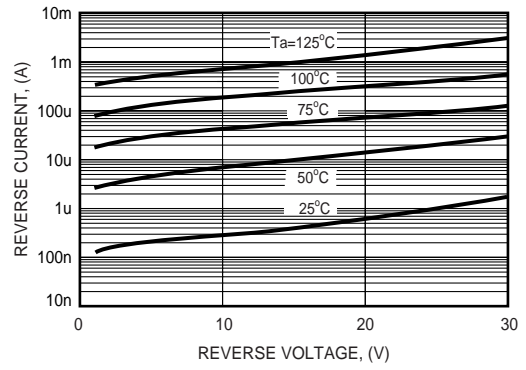


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

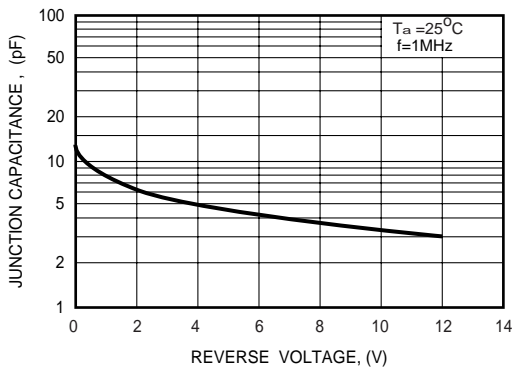


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

