



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY DIODE ARRAY

VOLTAGE 30 Volts CURRENT 0.2 Ampere

BAT54JWGP-A

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

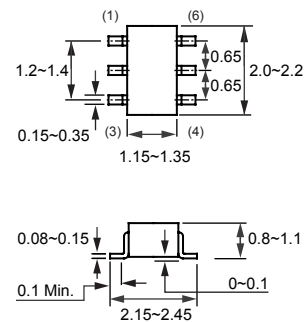
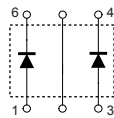
MARKING

- * LV4



SC-88/SOT-363

CIRCUIT



Dimensions in millimeters

SC-88/SOT-363

RATINGS	SYMBOL	BAT54JWGP-A	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	Volts
Maximum RMS Voltage	V _{RMS}	21	Volts
Maximum DC Blocking Voltage	V _{DC}	30	Volts
Maximum Average Forward Rectified Current	I _O	0.2	Amps
Peak Forward Surge Current at 1Sec.	I _{FSM}	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	C _J	10	pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	5.0	nSec
Maximum Operating Temperature Range	T _J	+150	°C
Storage Temperature Range	T _{STG}	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	BAT54JWGP-A	UNITS
Min. Reverse Breakdown Voltage at I _R = 100uA	V _R	30	Volts
Maximum Instantaneous Forward Voltage at I _F = 100uA Maximum Instantaneous Forward Voltage at I _F = 1mA Maximum Instantaneous Forward Voltage at I _F = 10mA Maximum Instantaneous Forward Voltage at I _F = 30mA Maximum Instantaneous Forward Voltage at I _F = 100mA	V _F	240 320 400 500 1000	mVolts
Maximum Average Reverse Current at V _R = 25V	I _R	2.0	uAmps

NOTES : 1. Measured at 1.0 MH z 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.

2007-10

RATING CHARACTERISTIC CURVES (BAT54JWGP-A)

FIG. 1 - FORWARD CHARACTERISTICS

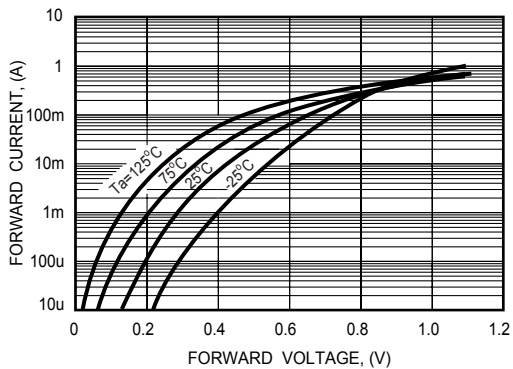


FIG. 2 - REVERSE CHARACTERISTICS

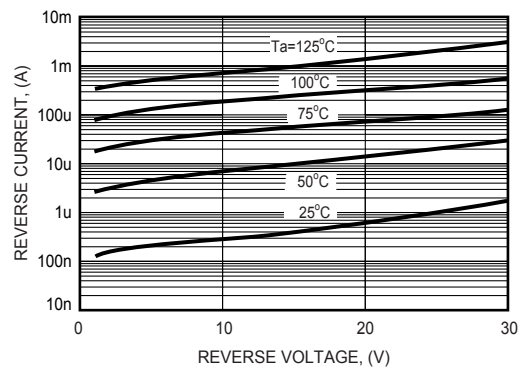


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

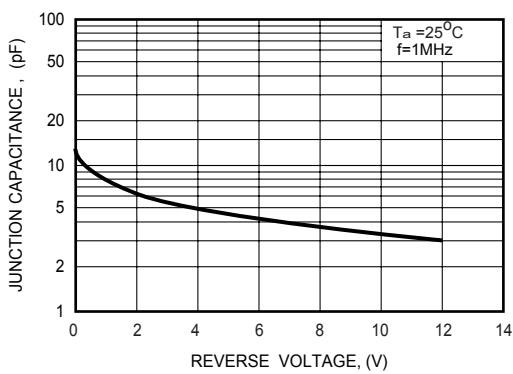


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

