CHENMKO ENTERPRISE CO.,LTD

BAT54BDWGP

Halogens free devices

SURFACE MOUNT
SCHOTTKY DIODE ARRAY
VOLTAGE 30 Volts CURRENT 0.2 Ampere

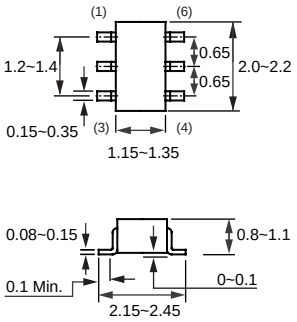
APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (SC-88/SOT-363)
* High speed. (T_{RR}=2.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 200mW.
* Peak forward current is 300mA.
* Schottky diode array (Dual common anode).

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* BD1

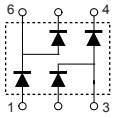
SC-88/SOT-363



Dimensions in millimeters

SC-88/SOT-363

CIRCUIT



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

RATINGS	SYMBOL	BAT54BDWGP	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	+125	°C
Storage Temperature Range	T_{STG}	-65 to +125	°C

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

CHARACTERISTICS		SYMBOL	BAT54BDWGP	UNITS
Maximum Instantaneous Forward Voltage	@ I_{F1}= 0.1mA @ I_{F2}= 1.0mA @ I_{F3}= 10mA @ I_{F4}= 30mA @ I_{F5}= 100mA	VF1 VF2 VF3 VF4 VF5	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 MHz and applied reverse voltage of 1.0 volts.
2. Measured at applied froward current of 10mA and reverse current of 10mA.
3. ESD sensitive product handling required.

2003-10

RATING CHARACTERISTIC CURVES (BAT54BDWGP)

FIG. 1 - FORWARD CHARACTERISTICS

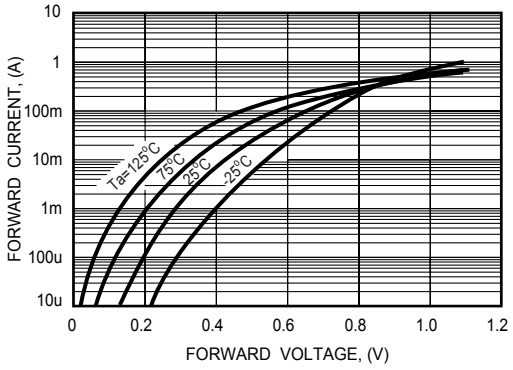


FIG. 2 - REVERSE CHARACTERISTICS

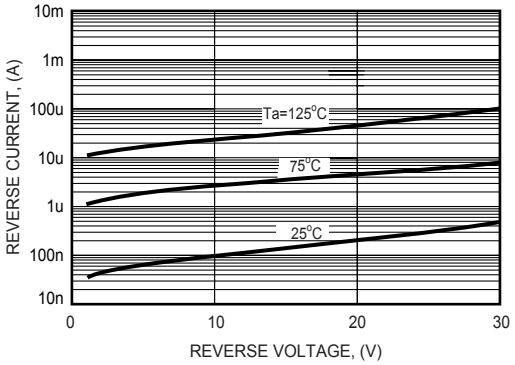


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

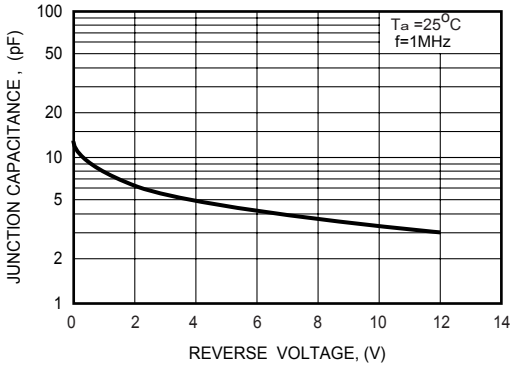


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE