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**CHENMKO ENTERPRISE CO.,LTD**

**SURFACE MOUNT**

**SCHOTTKY DIODE**

**VOLTAGE 30 Volts CURRENT 0.2 Ampere**

*Lead free devices*

**BAT54VPT**

**APPLICATION**

- \* Ultra high speed switching

**FEATURE**

- \* Small surface mounting type. (SOT-563)
- \* High speed. ( $T_{RR}=2.5\text{nSec Typ.}$ )
- \* Suitable for high packing density.
- \* Maximum total power dissipation is 150mW.

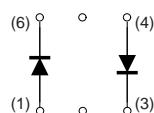
**CONSTRUCTION**

- \* Silicon epitaxial planar

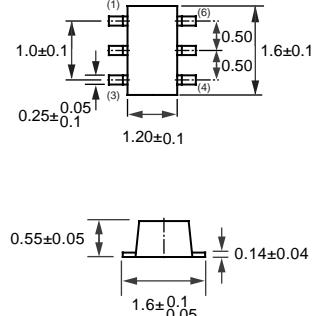
**MARKING**

- \* 1V

**CIRCUIT**



**SOT-563**



Dimensions in millimeters

**SOT-563**

RATINGS	SYMBOL	BAT54VPT	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 +150	°C

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

CHARACTERISTICS	SYMBOL	BAT54VPT	UNITS
Maximum Instantaneous Forward Voltage at $I_F = 100\text{mA}$	$V_F$	1.0	Volts
Maximum Average Reverse Current at $V_R = 25\text{V}$	$I_R$	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.

2004-07

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## RATING CHARACTERISTIC CURVES ( BAT54VPT )

FIG. 1 - FORWARD CHARACTERISTICS

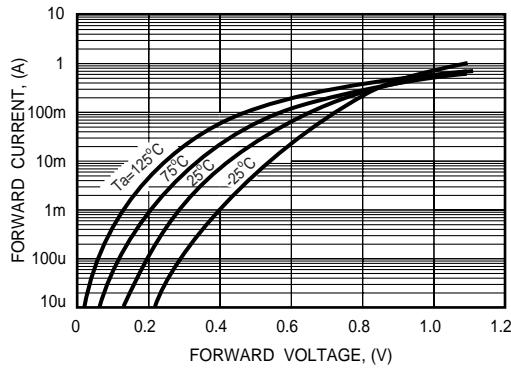


FIG. 2 - REVERSE CHARACTERISTICS

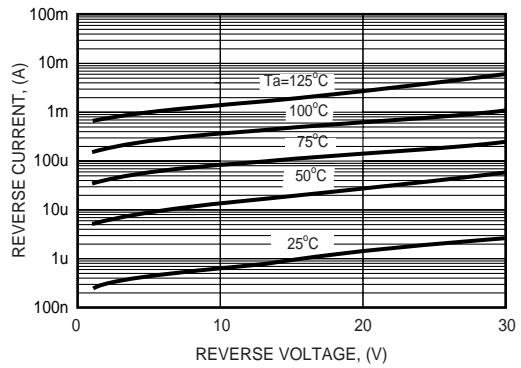


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

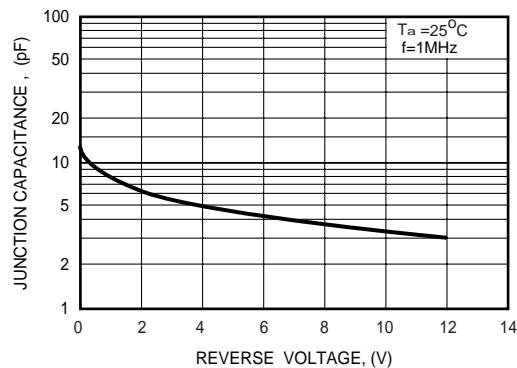


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

