



CHENMKO ENTERPRISE CO.,LTD

BAW56WPT

**SURFACE MOUNT
SWITCHING DIODE**

VOLTAGE 85 Volts CURRENT 0.15 Ampere

Lead free devices

APPLICATION

- * Ultra high speed switching

FEATURE

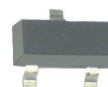
- * Small surface mounting type. (SC-70)
- * High speed. ($T_{RR}=1.5\text{nSec}$ Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 225mW.
- * Peak forward current is 450mA.

CONSTRUCTION

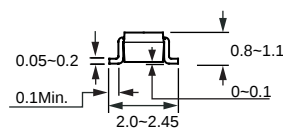
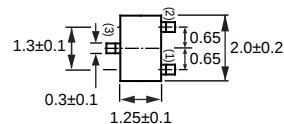
- * Silicon epitaxial planar

MARKING

- * MO



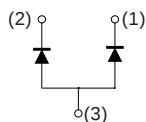
SC-70/SOT-323



Dimensions in millimeters

SC-70/SOT-323

CIRCUIT



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	BAW56WPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	85	Volts
Maximum RMS Voltage	V_{RMS}	60	Volts
Maximum DC Blocking Voltage	V_{DC}	70	Volts
Maximum Average Forward Rectified Current	I_O	0.15	Amps
Peak Forward Surge Current at 1uSec.	I_{FSM}	4.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	2.0	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nSec
Maximum Operating Temperature Range	T_J	+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	BAW56WPT	UNITS
Maximum Instantaneous Forward Voltage at $I_F = 150\text{mA}$	V_F	1.25	Volts
Maximum Average Reverse Current at $V_R = 75\text{V}$	I_R	1.0	μAmps

- NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volts.
2. Measured at applied forward current of 10mA and reverse voltage of 10.0 volts.
3. ESD sensitive product handling required.

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RATING CHARACTERISTIC CURVES (BAW56WPT)

FIG. 1 - TYPICAL FORWARD CURRENT
DERATING CURVE

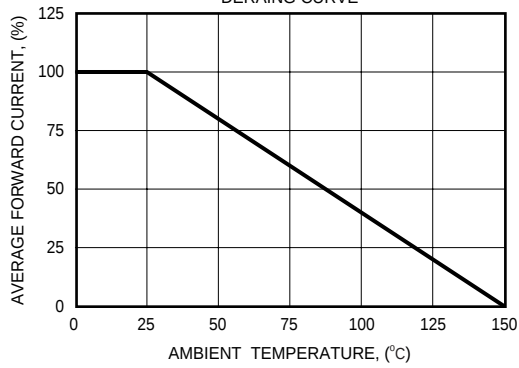


FIG. 2 - FORWARD CHARACTERISTICS

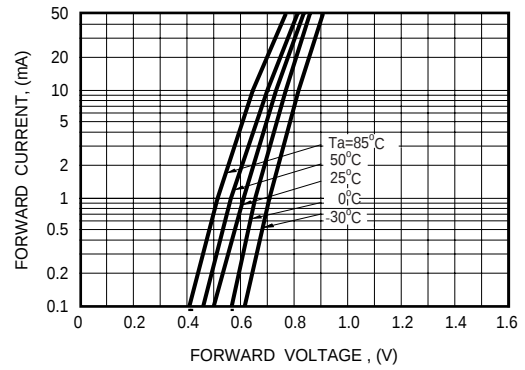


FIG. 3 - REVERSE CHARACTERISTICS

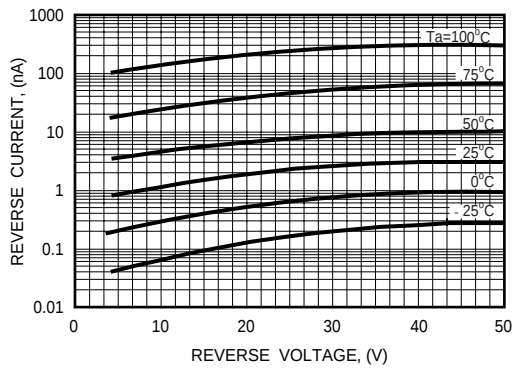


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

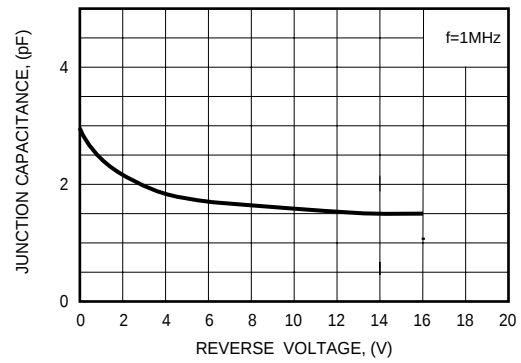


FIG. 5 - REVERSE RECOVERY TIME

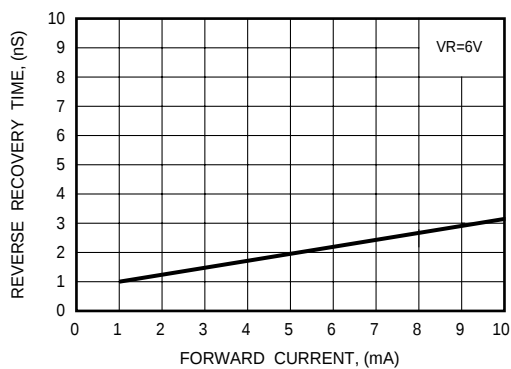


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

