



CHENMKO ENTERPRISE CO.,LTD

BAS16WPT

**SURFACE MOUNT
SWITCHING DIODE**

VOLTAGE 100 Volts CURRENT 0.15 Ampere

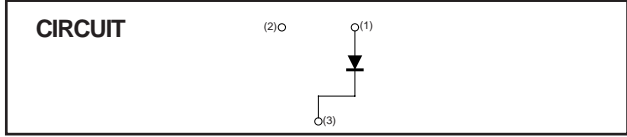
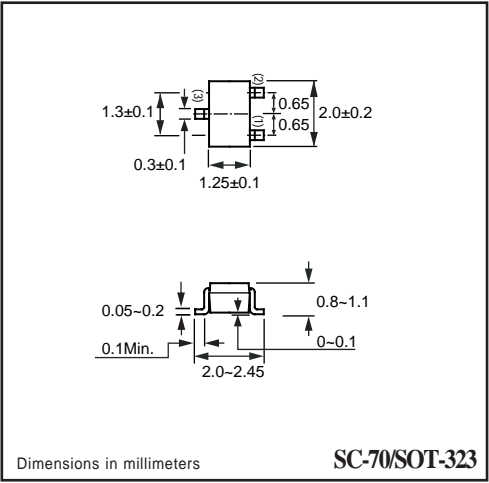
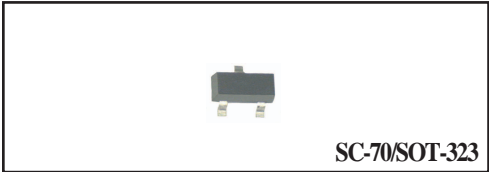
Lead free devices

APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (SC-70/SOT-323)
* High speed. (TRR=1.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power dissipation is 350mW.
* Peak forward current is 450mA.

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* WA



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | BAS16WPT | UNITS |
|--|--------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 100 | Volts |
| Maximum RMS Voltage | VRMS | 70 | Volts |
| Maximum DC Blocking Voltage | VDC | 75 | Volts |
| Maximum Average Forward Rectified Current | Io | 0.15 | Amps |
| Peak Forward Surge Current at 1uSec. | IFSM | 4.0 | Amps |
| Typical Junction Capacitance between Terminal (Note 1) | CJ | 1.5 | pF |
| Maximum Reverse Recovery Time (Note 2) | TRR | 4.0 | nSec |
| Maximum Operating Temperature Range | TJ | +150 | °C |
| Storage Temperature Range | TSTG | -55 to +150 | °C |

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

| CHARACTERISTICS | SYMBOL | BAS16WPT | UNITS |
|--|--------|----------|-------|
| Maximum Instantaneous Forward Voltage at If= 150mA | VF | 1.25 | Volts |
| Maximum Average Reverse Current at Vr= 75V | IR | 1.0 | uAmps |

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.

RATING CHARACTERISTIC CURVES (BAS16WPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

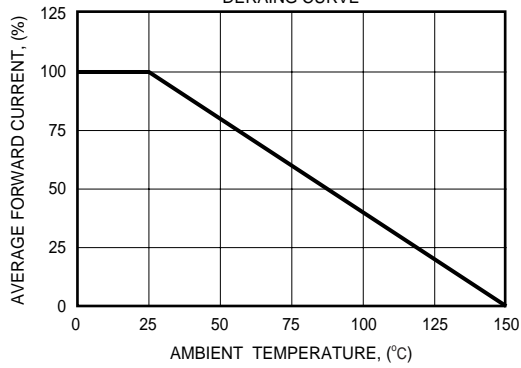


FIG. 2 - FORWARD CHARACTERISTICS

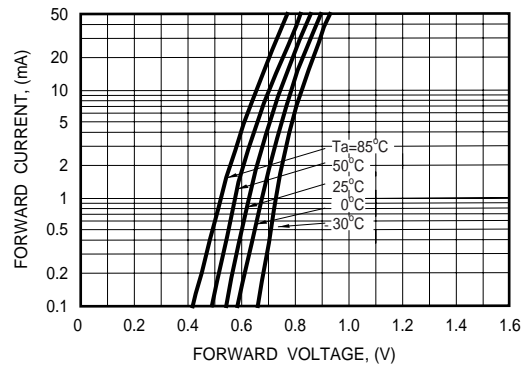


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

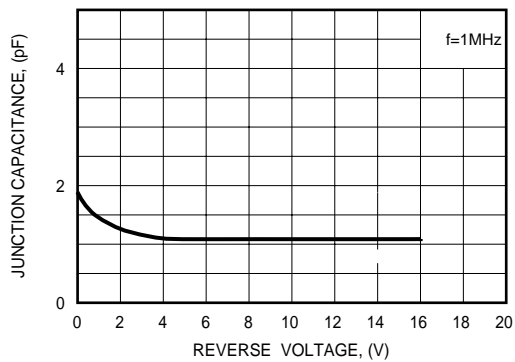


FIG. 4 - REVERSE CHARACTERISTICS

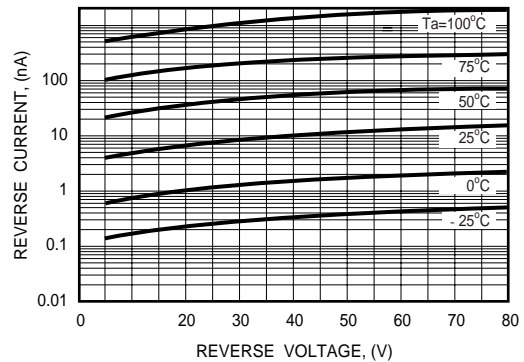


FIG. 5 - REVERSE RECOVERY TIME

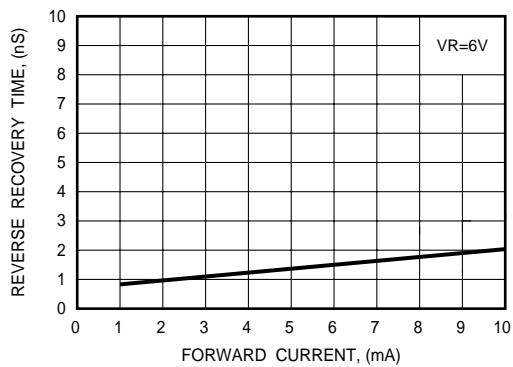


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

