



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

**SURFACE MOUNT
SCHOTTKY DIODE**

VOLTAGE 70 Volts CURRENT 70 mAmpers

BAS70TPT

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SC-75/SOT-416)
- * High speed. (TRR=2.5nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 150mW.
- * Peak forward surge current is 100mA.

CONSTRUCTION

- * PN junction guard ring protection

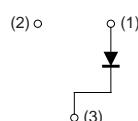
WEIGHT

- * 0.002 grams (Approx.)

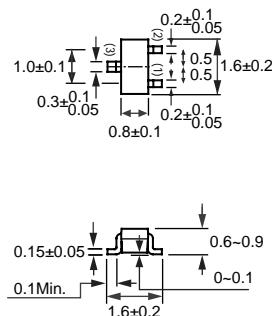
MARKING

- * TW

CIRCUIT



SC-75/SOT-416



Dimensions in millimeters

SC-75/SOT-416

RATINGS	SYMBOL	BAS70TPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	70	Volts
Maximum RMS Voltage	V _{RMS}	49	Volts
Maximum DC Blocking Voltage	V _{DC}	70	Volts
Maximum Average Forward Rectified Current	I _O	70	mAmps
Peak Forward Surge Current at 1Sec.	I _{FSM}	100	mAmps
Typical Junction Capacitance between Terminal (Note 1)	C _J	2.0	pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	5.0	nSec
Maximum Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	BAS70TPT	UNITS
Maximum Instantaneous Forward Voltage @ I _F = 1.0mA @ I _F = 15mA	V _F	410	mVolts
		1000	
Maximum Average Reverse Current at V _R = 50V	I _R	100	nAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0.0 volts.
2. Measured at applied forward current of 10mA and reverse current of 10mA.
3. ESD sensitive product handling required.

2003-09

RATING CHARACTERISTIC CURVES (BAS70TPT)

FIG. 1 - FORWARD CHARACTERISTICS

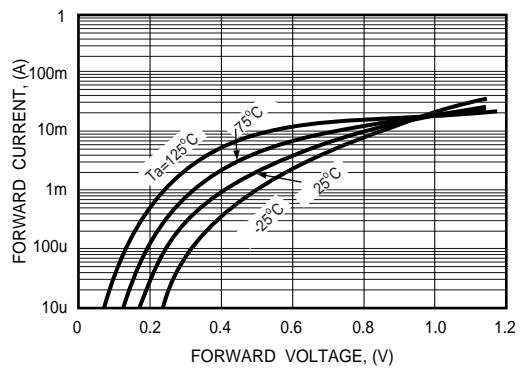


FIG. 2 - REVERSE CHARACTERISTICS

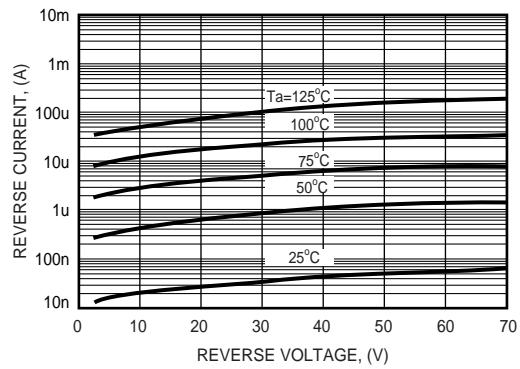


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

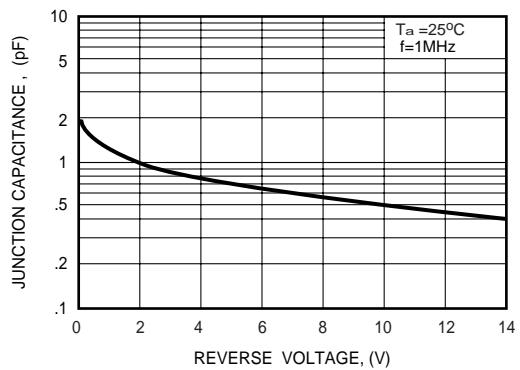


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

