CHENMKO ENTERPRISE CO.,LTD

BAS70APT

Lead free devices

SURFACE MOUNT
SCHOTTKY DIODE
VOLTAGE 70 Volts CURRENT 70 mAmperes

APPLICATION
* Ultra high speed switching

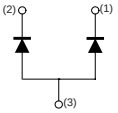
FEATURE
* Small surface mounting type. (SOT-23)
* High speed. (T_{RR}=2.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 200mW.
* Peak forward surge current is 100mA.

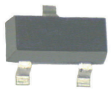
CONSTRUCTION
* PN junction guard ring protection

WEIGHT
* 0.008 grams (Approx.)

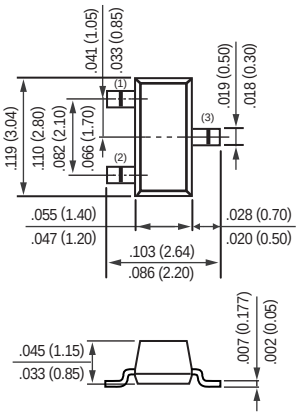
MARKING
* B2

CIRCUIT





SOT-23



Dimensions in inches and (millimeters)

SOT-23

RATINGS	SYMBOL	BAS70APT	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	^oC
Storage Temperature Range	T_{STG}	-65 to +150	^oC

ELECTRICAL CHARACTERISTICS (At T_A = 25^{o}C unless otherwise noted)

CHARACTERISTICS		SYMBOL	BAS70APT	UNITS
Maximum Instantaneous Forward Voltage	@I_F= 1.0mA	V_F	410	mVolts
	@I_F= 15mA		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! volts.
2. Measured at applied froward current of 10mA and reverse current of 10mA.
3. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (BAS70APT)

FIG. 1 - FORWARD CHARACTERISTICS

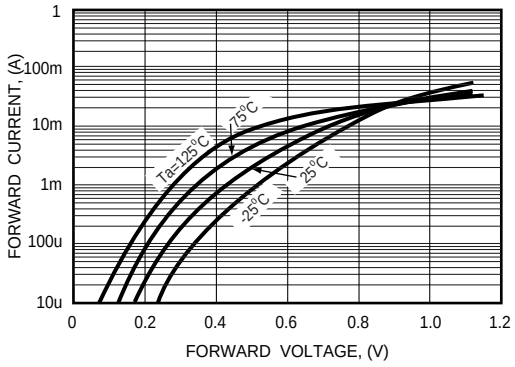


FIG. 2 - REVERSE CHARACTERISTICS

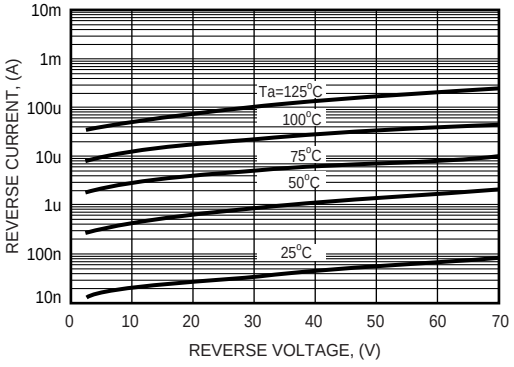


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

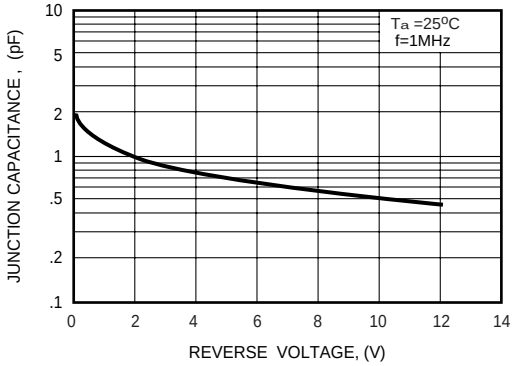


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

