



CHENMKO ENTERPRISE CO.,LTD

BAS21N1PT

SURFACE MOUNT

FAST SWITCHING DIODE

VOLTAGE RANGE 250 Volts CURRENT 200 mAmpere

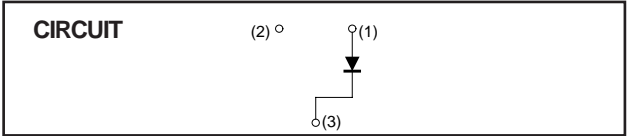
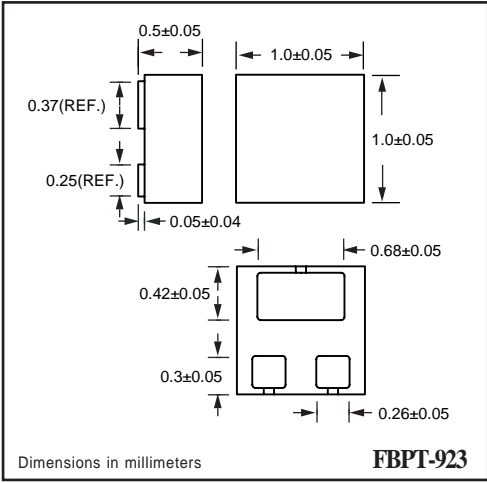
Lead free devices

APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (FBPT-923)
* High speed. (TRR=30nSec Typ.)
* Suitable for high packing density.

CONSTRUCTION
* Silicon epitaxial planar

FBPT-923



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

RATINGS	SYMBOL	BAS21N1PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	250	Volts
Maximum RMS Voltage	VRMS	141	Volts
Maximum DC Blocking Voltage	VDC	200	Volts
Maximum Average Forward Rectified Current at TL = 100°C	IO	200	mAmps
Non-Repetitive Peak Forward Surge Current	@ t=1.0uS	2.5	Amps
	@ t=1.0S	0.5	
Typic Junction Capacitance (Note 2)	CJ	5.0	pF
Maximum Reverse Recovery Time (Note 3)	TRR	50	nS
Typical Thermal Resistance (Note 1)	R θJA	833	°C / W
Storage and Operating Temperature Range	TJ, TSTG	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	BAS21N1PT	UNITS
Maximum Instantaneous Forward Voltage	@ IF = 100 mA	1.00	Volts
	@ IF = 200 mA	1.25	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	100	nAmps
	@ TJ = 100°C	15	uAmps
Breakdown Voltage(Minimun)	Bv	250	Volts

NOTES : 1. Thermal Resistance (Junction to Lead) : PC Board Mounted on 0.06 X 0.06" (0.15X 0.15mm) copper pad area.
2. Measured at 1.0 MHz and applied reverse voltage of 0 volt.
3. IF=IR=30 mA, IRR=0.1XIR, RL=100 ohms

2006-07

RATING CHARACTERISTIC CURVES (BAS21N1PT)

FIG. 1 - TYPICAL FORWARD CURRENT
DERATING CURVE

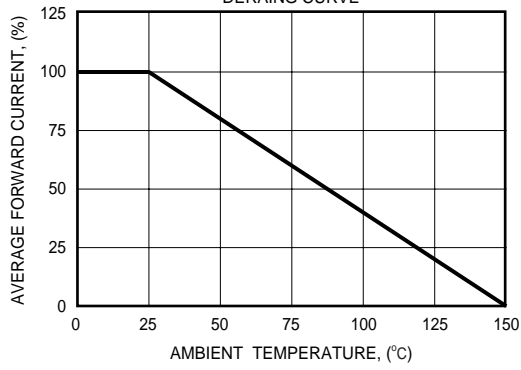


FIG. 2 - FORWARD CHARACTERISTICS

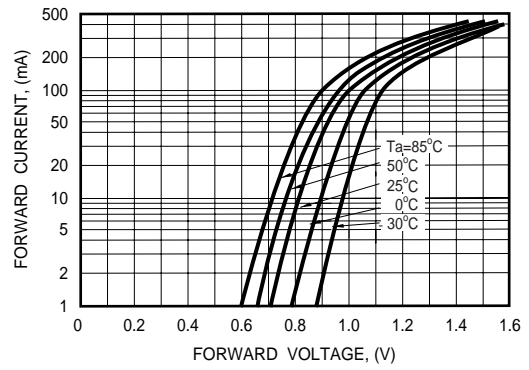


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

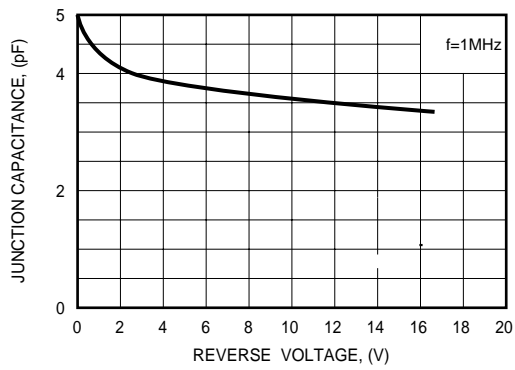


FIG. 4 - REVERSE CHARACTERISTICS

