



CHENMKO ENTERPRISE CO.,LTD

BAS21TPT

SURFACE MOUNT

FAST SWITCHING DIODE

VOLTAGE RANGE 250 Volts CURRENT 200 mAmpere

Lead free devices

FEATURES

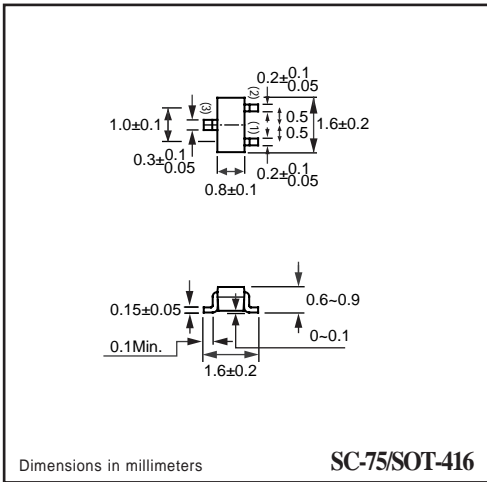
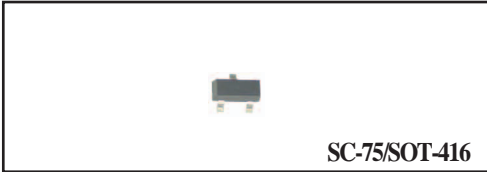
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Low power loss, high efficiency
- * High current capability, low forward voltage drop
- * Power dissipation: 150mW
- * Repetitive peak forward surge current: 625mA
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

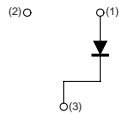
Case: JEDEC SC-75 molded plastic
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Weight: 0.002 gram

MARKING

* TE



CIRCUIT



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

RATINGS	SYMBOL	BAS21TPT	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 #JA	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	BAS21TPT	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

RATING CHARACTERISTIC CURVES (BAS21TPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

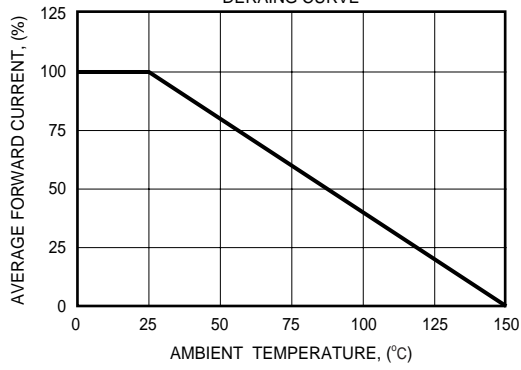


FIG. 2 - FORWARD CHARACTERISTICS

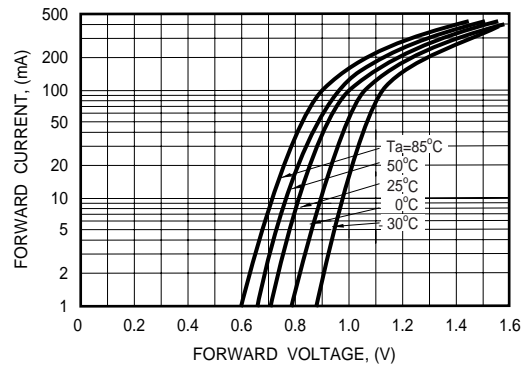


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

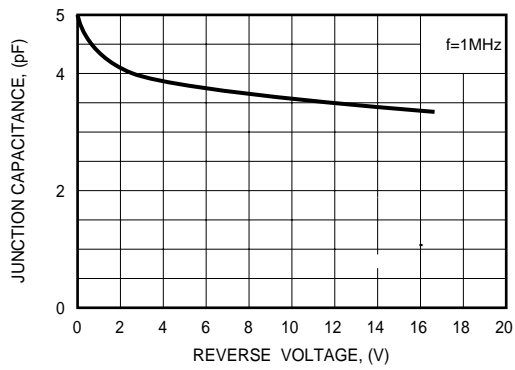


FIG. 4 - REVERSE CHARACTERISTICS

