



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

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 KWUN TONG, KOWLOON, HONG KONG.  
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RECTIFIER SPECIALISTS

BAS19  
 THRU  
 BAS21

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE

VOLTAGE RANGE - 100 to 200 Volts

CURRENT - 0.2 Ampere

FEATURES

- \* Surface Mount Package Ideally Suited for Automatic Insertion
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage
- \* High current capability

MECHANICAL DATA

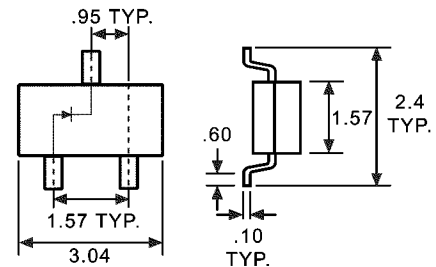
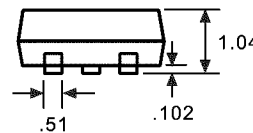
- \* Case: SOT-23, Plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated solderable per MIL-STD-202E, Method 208 guaranteed
- \* Polarity: See Diagram
- \* Mounting position: Any
- \* Weight: 0.008 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.



SOT-23



Dimensions in millimeters

	SYMBOL	BAS19	BAS20	BAS21	UNITS
Maximum Peak Repetitive Reverse Voltage	VRRM	100	150	200	V
Maximum Average Rectified Current	I <sub>o</sub>	200			mA
Maximum Power Dissipation Tamb=25°C	P <sub>tot</sub>	250			mW
Maximum Forward Voltage (@I <sub>F</sub> =100mA)	V <sub>F</sub>	1.0			V
Maximum Reverse Current (@V <sub>R</sub> =VRRM Max)	I <sub>R</sub>	100			nA
Maximum Reverse Recovery Time(Note 1)	t <sub>rr</sub>	50			nS
Typical Junction Capacitance	C <sub>J</sub>	5.0			pF
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to +150			°C

Note: 1. Test Conditions: I<sub>F</sub>=I<sub>R</sub>=10mA, R<sub>L</sub>=100Ω, V<sub>R</sub>=6V to I<sub>R</sub>=1mA, R<sub>L</sub>=100Ω