



### SURFACE MOUNT SWITCHING DIODES

Voltage

100~250 V

**POWER** 

350 mW

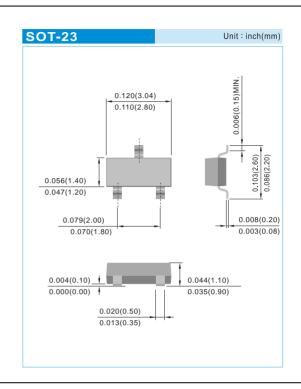
#### **Features**

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

#### Mechanical Data

- Case: SOT-23, Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams





# Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

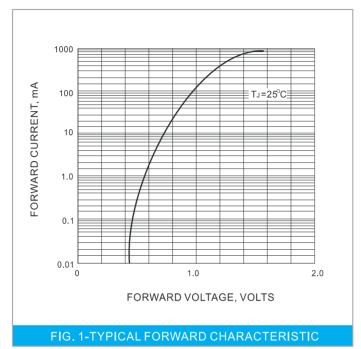
PARAMETER	SYMBOL	BAS16-AU	BAS19-AU	BAS20-AU	BAS21-AU	UNIT
Marking Code		A6	A8	A80	A82	
Reverse Voltage	$V_R$	75	100	150	200	V
Peak Reverse Voltage	$V_{RM}$	100	120	200	250	V
Rectified Current (Average), Half Wave Rectification With Resistive Load And f >50Hz	Io	250	200	200	200	mA
Peak Forward Surge Current, tp=1μs Single Half Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	2	2.5	2.5	2.5	А
Power Dissipation Derate Above 25 °C	P <sub>TOT</sub>	350	350	350	350	mW
Maximum Forward Voltage	V <sub>F</sub>	0.855@10mA	1.0@100mA	1.0@100mA	1.0@100mA	V
Maximum Dc Reverse Current At Rated Dc Blocking $\label{eq:control} \mbox{Voltage T}_{\mbox{\scriptsize J}}\mbox{=}25\mbox{$^{\circ}$C}$	I <sub>R</sub>	1	1	1	1	μА
Typical Junction Capacitance (Notes1)	C <sub>J</sub>	2	1.5	1.5	1.5	pF
Maximum Reverse Recovery Time (Note 2)	$T_RR$	6	50	50	50	nS
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	357				
Operating Junction Temperature And Storage Temperature Range	$T_J, T_STG$	-55 to +150				

#### NOTES:

- 1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHz
- 2. From I<sub>F</sub>=10mA to I<sub>R</sub> =1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=100 $\Omega$
- 3. Mounted on a FR-4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area







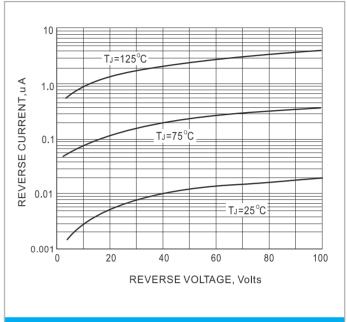
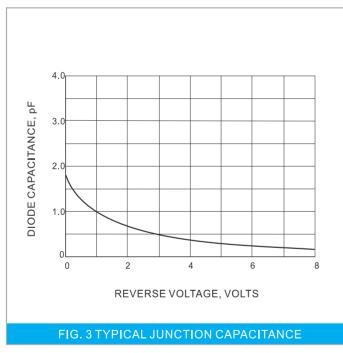
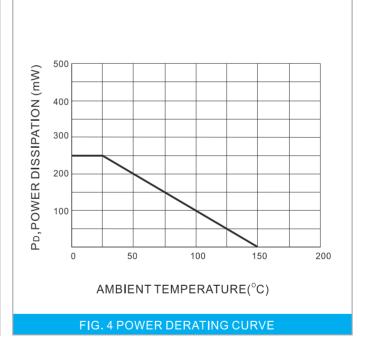


FIG. 2-TYPICAL REVERSE CHARACTERISTICS



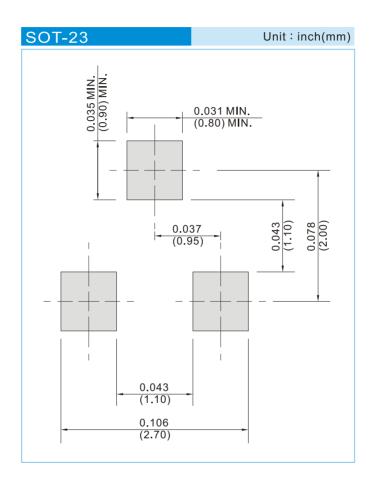


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#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R – 3K per 7" plastic Reel

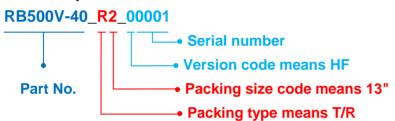




Part No\_packing code\_Version

BAS16-AU\_R1\_000A1 BAS16-AU\_R2\_000A1

### For example:



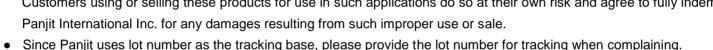
Packing Code XX				Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code	
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	8	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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