ΡΛΝ	ĴΪΤ
	SEMI CONDUCTOR

Unit : inch(mm)

0.103(2.60) 0.086(2.20)

0.008(0.20)

0.003(0.08)

0.006(0.15)MIN

BAS16-AU~BAS21-AU SURFACE MOUNT SWITCHING DIODES SOT-23 350 mW 100~250 V POWER Voltage **Features** 0.120(3.04) • Fast switching speed. 0.110(2.80) 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 0.056(1.40)0.047(1.20) • AEC-Q101 qualified Mechanical Data 0.079(2.00) 0.070(1.80) • Case: SOT-23, Plastic • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 SINGLE 0.044(1.10) • Approx. Weight: 0.0003 ounces, 0.0084 grams 0.004(0.10) 0.035(0.90) 0.000(0.00) 3 0.020(0.50) 0.013(0.35)

(TOP VIEW)

Maximum Ratings ($T_A=25^{\circ}C$ 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 <u>></u> 50Hz	lo	250	200	200	200	mA
Peak Forward Surge Current, tp=1µs Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	2	2.5	2.5	2.5	А
Power Dissipation Derate Above 25 °C	P _{TOT}	350	350	350	350	mW
Maximum Forward Voltage	V _F	0.855@10mA	1.0@100mA	1.0@100mA	1.0@100mA	V
Maximum Dc Reverse Current At Rated Dc Blocking Voltage T _J =25 °C	I _R	1	1	1	1	μΑ
Typical Junction Capacitance (Notes1)	CJ	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)	$R_{ extsf{ heta}JA}$	357				°C/W
Operating Junction Temperature And Storage Temperature Range	T _J ,T _{STG}	-55 to +150				

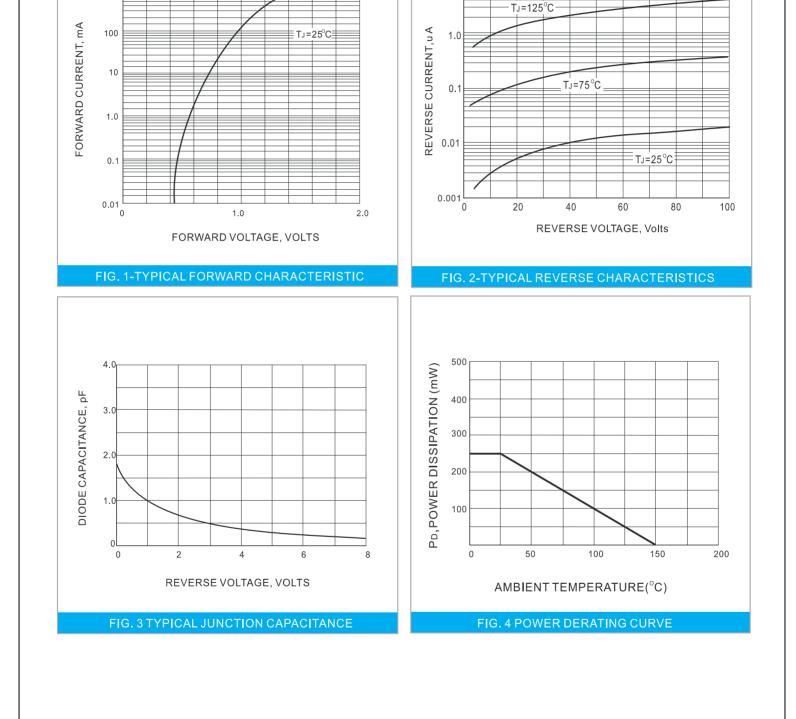
NOTES :

1. C_J at $V_R=0$, f=1MHz

2. From I_F=10mA to I_R =1mA, V_R=6Volts, R_L=100\Omega

3. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area

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BAS16-AU~BAS21-AU

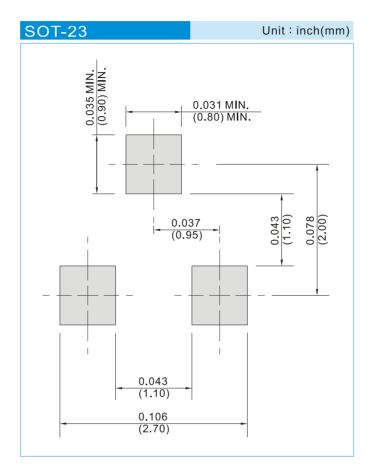






BAS16-AU~BAS21-AU

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
- T/R 12K per 13" plastic Reel T/R – 3K per 7" plastic Reel





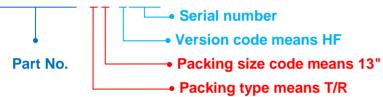
BAS16-AU~BAS21-AU

Part No_packing code_Version

BAS16-AU_R1_000A1 BAS16-AU_R2_000A1

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	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)	S	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			





BAS16-AU~BAS21-AU

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