

Excellent Integrated System Limited

Stocking Distributor

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Vishay Semiconductor/Diodes Division BA980-GS18

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Vishay Semiconductor/Diodes Division: Excellent Integrated System Limite Datasheet of BA980-GS18 - DIODE RF PIN SOD80 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

Vishay Semiconductors

RF PIN Diode - Single in QuadroMELF SOD-80

FEATURES

- Wide frequency range 10 MHz to 1 GHz
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see RoHS www.vishay.com/doc?99912

APPLICATIONS

• Current controlled HF resistance in adjustable attenuators

MECHANICAL DATA

Case: QuadroMELF SOD-80 Weight: approx. 34 mg Cathode band color: black Packaging codes/options:

GS18/10K per 13" reel (8 mm tape), 10K/box GS08/2.5K per 7" reel (8 mm tape), 12.5K/box

PARTS TABLE						
PART	ORDERING CODE	TYPE MARKING	INTERNAL CONSTRUCTION	REMARKS		
BA980	BA980-GS18 or BA980-GS08	-	Single diode	Tape and reel (2500 pcs)		

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PART	TEST CONDITION	SYMBOL	VALUE	UNIT	
Reverse voltage		V _R	30	V	
Forward continuous current		١ _F	50	mA	

THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Thermal resistance junction to ambient air	on PC board 50 mm x 50 mm x 1.6 mm	R _{thJA}	500	K/W		
Junction temperature		Tj	125	°C		
Storage temperature range		T _{stg}	- 55 to + 150	°C		

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 20 mA		V _F			1	V
Reverse current	V _R = 30 V		I _R			0.05	μA
Diode capacitance	$f = 100 \text{ MHz}, V_R = 0 \text{ V}$		CD			0.5	pF
Differential forward resistance	f = 100 MHz, I _F = 1.5 mA		r _f	40		60	Ω
Reverse impedance	f = 100 MHz, V _R = 0 V	BA980	Zr	5			kΩ
Minority carrier lifetime	I _F = 10 mA, I _R = 10 mA		τ		4		μs

Rev. 1.5, 21-May-12

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BA980



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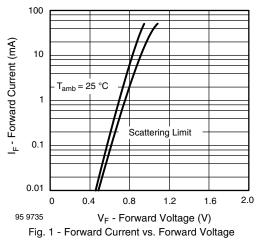


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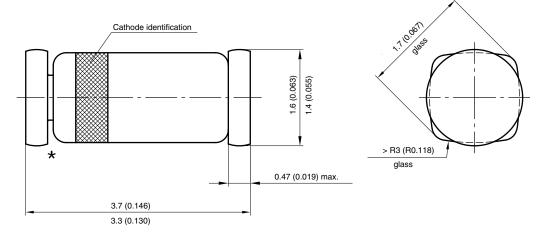
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BA980

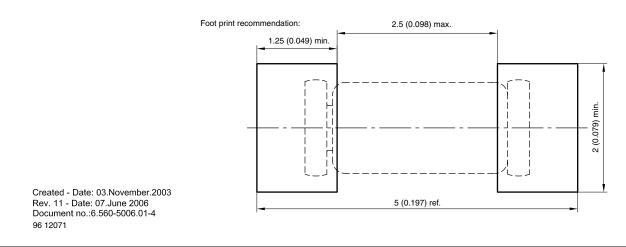
TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)



PACKAGE DIMENSIONS in millimeters (inches): QuadroMELF SOD-80



★ The gap between plug and glass can be either on cathode or anode side



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For technical questions within your region: <u>DiodesAmericas@vishay.com</u>, <u>DiodesAsia@vishay.com</u>, <u>DiodesEurope@vishay.com</u> THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT <u>www.vishay.com/doc?91000</u>



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