

Vishay Semiconductors

RF PIN Diodes - 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 <u>www.vishay.com/doc?99912</u>
 See COMPLIANT

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	TYPE ORDERING CODE		TYPE MARKING	INTERNAL CONSTRUCTION	REMARKS	
BA979	$z_r > 5 \ k\Omega$	BA979-GS18 or BA979-GS08	-	Single diode	Tape and reel	
BA979S	$z_r > 9 \ k\Omega$	BA979S-GS18 or BA979S-GS08	-	Single diode	Tape and reel	

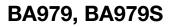
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PART	TEST CONDITION	SYMBOL	VALUE	UNIT		
Reverse voltage		V _R	30	V		
Forward continuous current		١ _F	50	mA		

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			50	Ω
Reverse impedance	f = 100 MHz, V _R = 0 V	BA979	Zr	5			kΩ
		BA979S	Zr	9			kΩ
Minority carrier lifetime	l _F = 10 mA, l _R = 10 mA		τ		4		μs

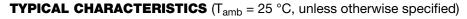
Rev. 1.6, 21-May-12

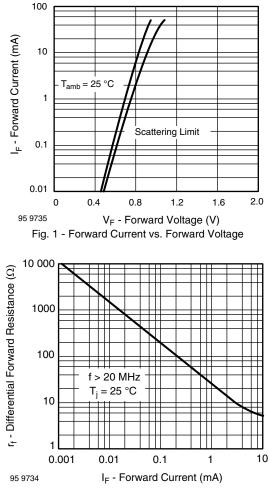
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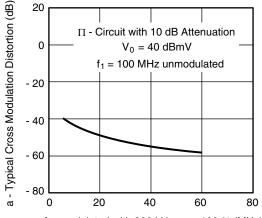


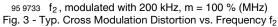
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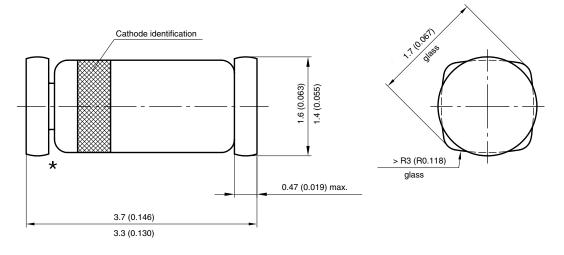
Document Number: 85533

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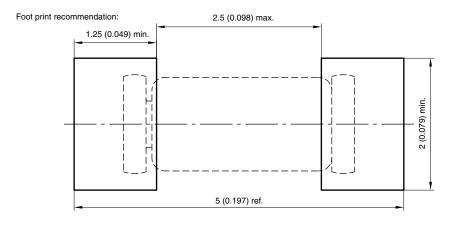


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PACKAGE DIMENSIONS in millimeters (inches): QuadroMELF SOD-80



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



Created - Date: 03.November.2003 Rev. 11 - Date: 07.June 2006 Document no.:6.560-5006.01-4 96 12071



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