



RF PIN Diode - Single in QuadroMELF SOD-80

Features

- Wide frequency range 10 MHz to 1 GHz
- AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC



RoHS



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:

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

Parts Table

Part	Ordering code	Type Marking	Remarks	
BA980	BA980-GS18 or BA980-GS08	-	Tape and Reel (2.500 pcs)	

Absolute Maximum Ratings

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	ondition Symbol Value		Unit	
Reverse voltage		V _R	30	V	
Forward continuous current		I _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		T _j	125	°C
Storage temperature range		T _{stg}	- 55 to + 150	°C

Electrical Characteristics

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Forward voltage	I _F = 20 mA	V_{F}			1000	mV
Reverse current	V _R = 30 V	I _R			50	nA
Diode capacitance	f = 100 MHz, V _R = 0	C _D			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	z _r	5			kΩ
Minority carrier lifetime	I _F = 10 mA, I _R = 10 mA	τ		4		μs

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Typical Characteristics

T_{amb} = 25 °C, unless otherwise specified

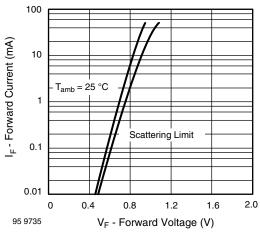
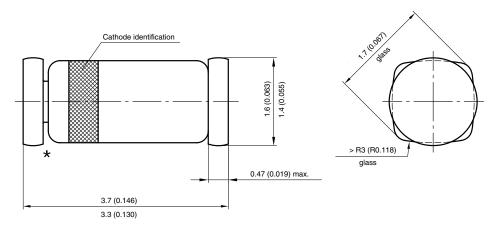
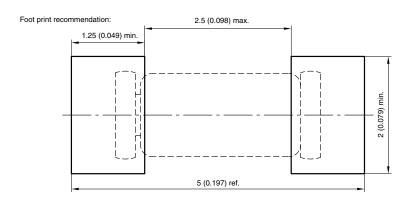


Figure 1. Forward Current vs. Forward Voltage

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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