



Small Signal Switching Diodes, Low Leakage Current



FEATURES

- Silicon planar diodes
Very low reverse current
Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS COMPLIANT

APPLICATIONS

Protection circuits, time delay circuits, peak follower circuits, logarithmic amplifiers

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

Table with 6 columns: PART, TYPE DIFFERENTIATION, ORDERING CODE, TYPE MARKING, INTERNAL CONSTRUCTION, REMARKS. Rows for BAQ133, BAQ134, BAQ135.

Table with 6 columns: PARAMETER, TEST CONDITION, PART, SYMBOL, VALUE, UNIT. Title: ABSOLUTE MAXIMUM RATINGS (T_amb = 25 °C, unless otherwise specified)

Table with 5 columns: PARAMETER, TEST CONDITION, SYMBOL, VALUE, UNIT. Title: THERMAL CHARACTERISTICS (T_amb = 25 °C, unless otherwise specified)

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 100\text{ mA}$		V_F			1	V
Reverse current	$E \leq 300\text{ lx}$, rated V_R		I_R		1	3	nA
	$E \leq 300\text{ lx}$, rated V_R , $T_j = 125\text{ }^{\circ}\text{C}$		I_R			0.5	μA
	$E \leq 300\text{ lx}$, $V_R = 15\text{ V}$	BAQ133	I_R		0.5	1	nA
	$E \leq 300\text{ lx}$, $V_R = 30\text{ V}$	BAQ134	I_R		0.5	1	nA
	$E \leq 300\text{ lx}$, $V_R = 60\text{ V}$	BAQ135	I_R		0.5	1	nA
Breakdown voltage	$I_R = 5\text{ }\mu\text{A}$, $t_p/T = 0.01$, $t_p = 0.3\text{ ms}$	BAQ133	$V_{(BR)}$	40			V
		BAQ134	$V_{(BR)}$	70			V
		BAQ135	$V_{(BR)}$	140			V
Diode capacitance	$V_R = 0$, $f = 1\text{ MHz}$		C_D			3	pF

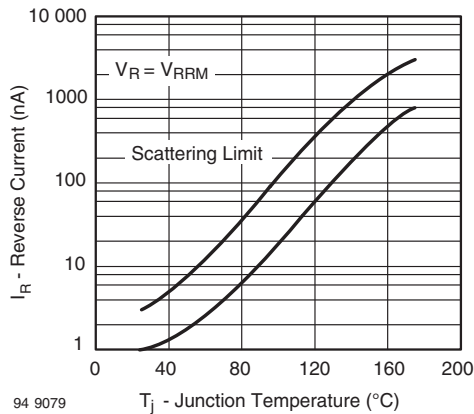
TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)


Fig. 1 - Reverse Current vs. Junction Temperature

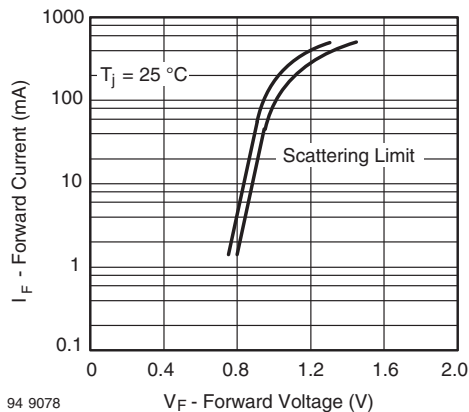
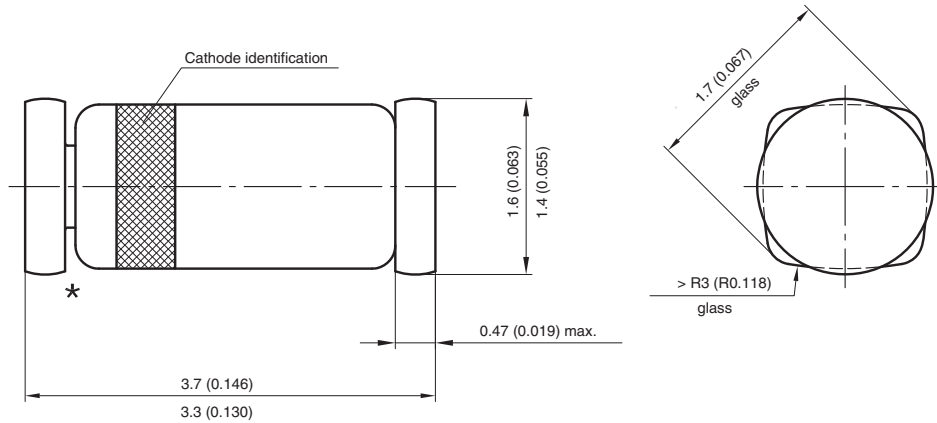
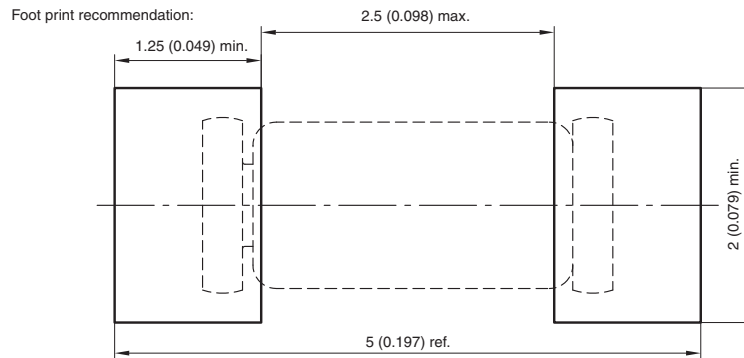


Fig. 2 - Forward Current vs. Forward Voltage

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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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
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