

Vishay Semiconductors

Small Signal Schottky Diode

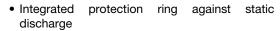


MECHANICAL DATA

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

FEATURES





• Very low forward voltage

AEC-Q101 qualified

RoHS COMPLIANT

Material categorization:
 For definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

Applications where a very low forward voltage is required

PARTS TABLE					
PART	ORDERING CODE	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS	
BAS286	BAS286-GS18 or BAS286-GS08	Single diode	=	Tape and reel	

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Reverse voltage		V_R	50	V	
Peak forward surge current	t _p = 10 ms	I _{FSM}	5	Α	
Repetitive peak forward current $t_p \le 1 s$		I _{FRM}	500	mA	
Forward continuous current		I _F	200	mA	
Average forward current		I _{FAV}	200	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}	320	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	- 65 to + 150	°C	

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 0.1mA	V _F			300	mV
	I _F = 1 mA	V_{F}			380	mV
Forward voltage	I _F = 10 mA	V _F			450	mV
	I _F = 30 mA	V _F			600	mV
	I _F = 100 mA	V_{F}			900	mV
Reserve current	V _R = 40 V	I _R			5	μΑ
Diode capacitance	V _R = 1 V, f = 1 MHz	C _D			8	pF

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

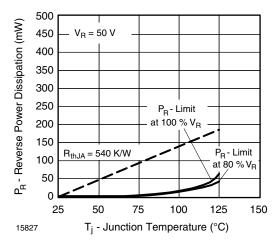


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

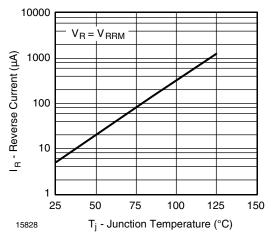


Fig. 2 - Reverse Current vs. Junction Temperature

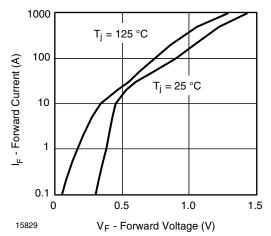


Fig. 3 - Forward Current vs. Forward Voltage

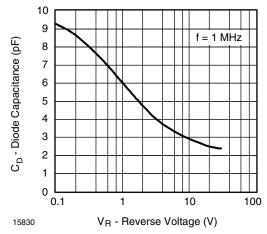
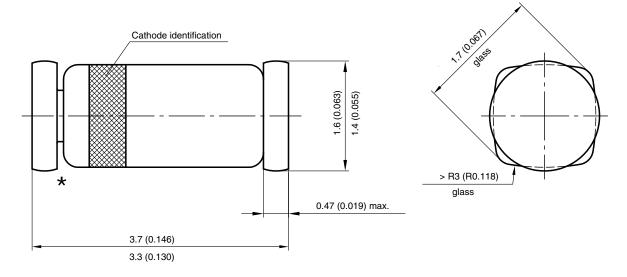


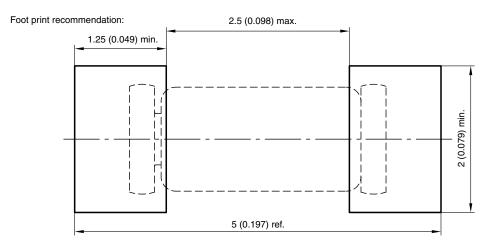
Fig. 4 - Diode Capacitance vs. Reverse Voltage

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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



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Revision: 02-Oct-12 Document Number: 91000

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