Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Vishay Semiconductor/Diodes Division
BAS286-GS18

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

Distributor of Vishay Semiconductor/Diodes Division: Excellent Integrated System Limite
Datasheet of BAS286-GS18 - DIODE SCHOTTKY 50V 200MA SOD80
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Small Signal Schottky Diode

FEATURES

- Integrated protection ring against static discharge
- Very low forward voltage
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIANT

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

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	A
Repetitive peak forward current	$t_p \leq 1$ 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		T_j	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
Forward voltage	I_F = 0.1mA	V_F			300	mV
	I_F = 1 mA	V_F			380	mV
	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	µA
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)

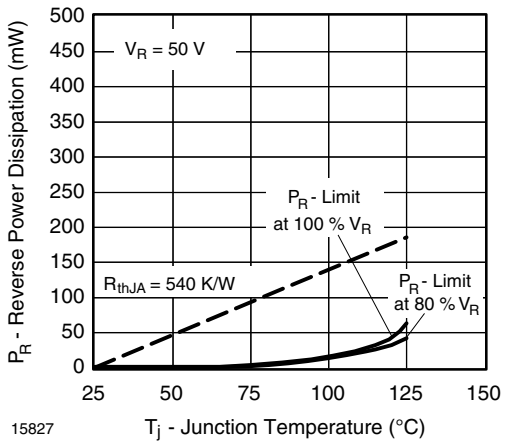

Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

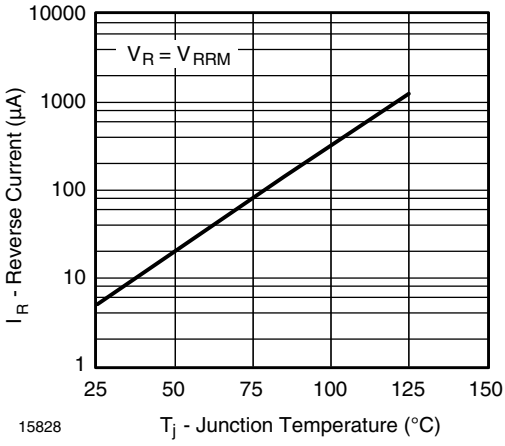

Fig. 2 - Reverse Current vs. Junction Temperature

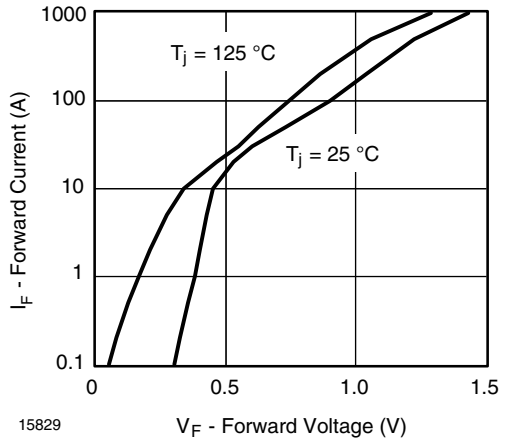

Fig. 3 - Forward Current vs. Forward Voltage

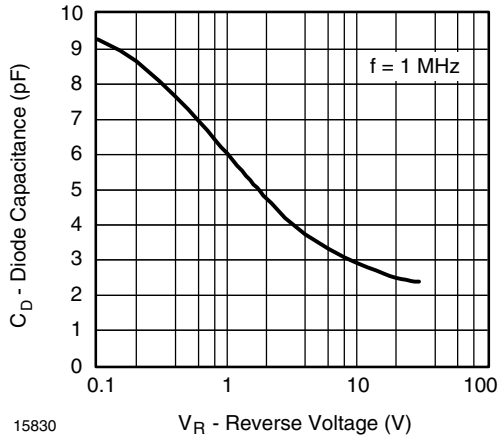

Fig. 4 - Diode Capacitance vs. Reverse Voltage

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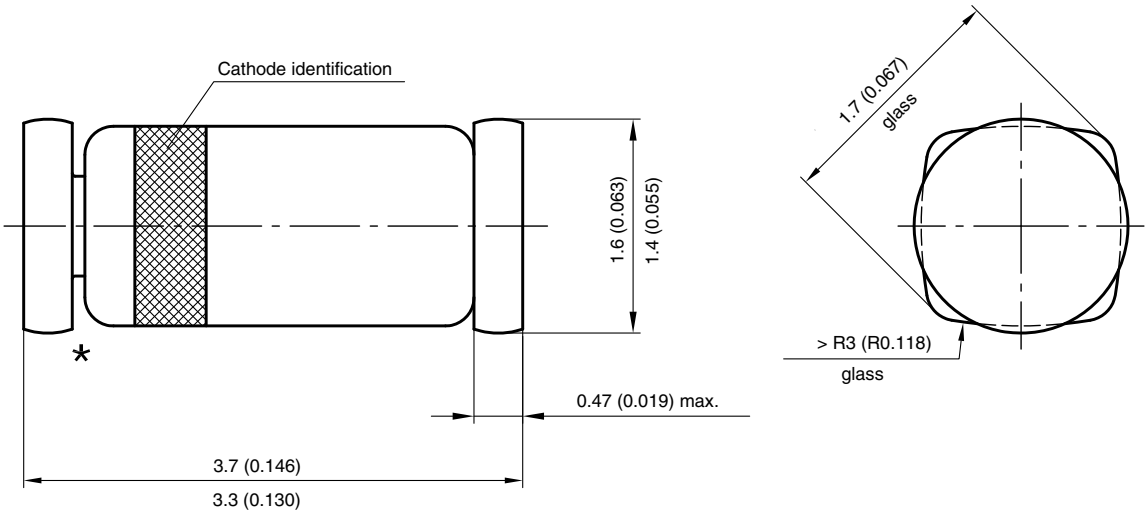
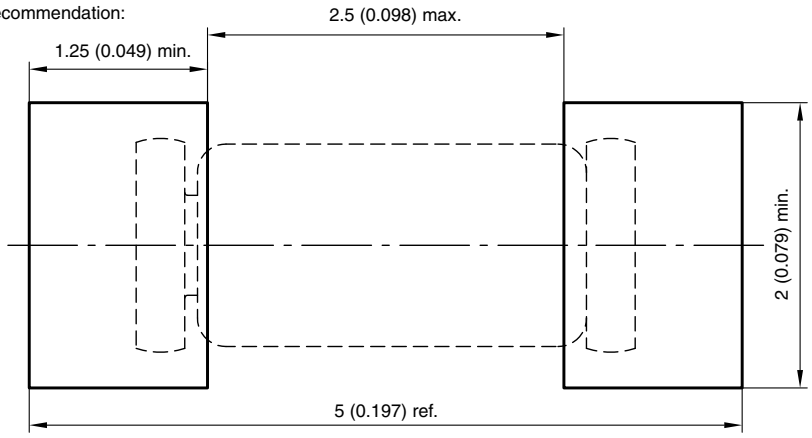
PACKAGE DIMENSIONS in millimeters (inches): **QuadroMELF SOD-80**



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

Foot print recommendation:



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

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