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<u>Vishay Semiconductor/Diodes Division</u> <u>BAS285-GS18</u>

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

Datasheet of BAS285-GS18 - DIODE SCHOTTKY 30V 200MA SOD80 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



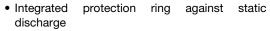


Vishay Semiconductors

Small Signal Schottky Diode



FEATURES





- Very low forward voltage
- AEC-Q101 qualified

RoHS

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

APPLICATIONS

• Applications where a very low forward voltage is required

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 DIFFERENTATION		ORDERING CODE	INTERNAL CONSTRUCTION	REMARKS	
BAS285	V _R = 30 V	BAS285-GS18 or BAS285-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	30	V	
Peak forward surge current	t _p = 10 ms	I _{FSM}	5	А	
Repetitive peak forward current	t _p ≤1 s	I _{FRM}	300	mA	
Forward 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	
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
	I _F = 0.1 mA	V _F			240	mV
	I _F = 1 mA	V _F			320	mV
Forward voltage	I _F = 10 mA	V _F			400	mV
	I _F = 30 mA	V _F			500	mV
	I _F = 100 mA	V _F			800	mV
Reverse current	$V_R = 25 \text{ V}, t_p = 300 \mu\text{s}$	I _R			2.3	μΑ
Diode capacitance	V _R = 1 V, f = 1 MHz	C _D			10	pF

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

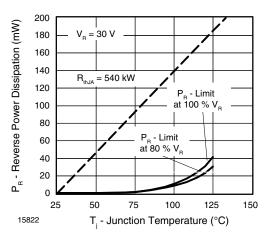


Fig. 1 - Max. Reverse Power Dissipation vs. Junction Temperature

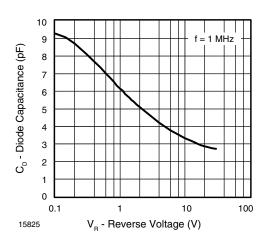


Fig. 4 - Diode Capacitance vs. Reverse Voltage

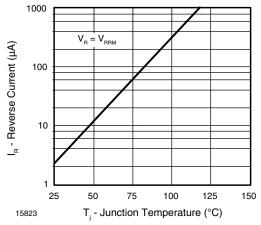


Fig. 2 - Reverse Current vs. Junction Temperature

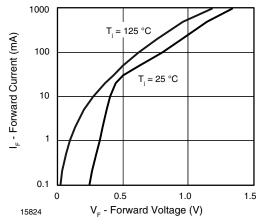


Fig. 3 - Forward Current vs. Forward Voltage



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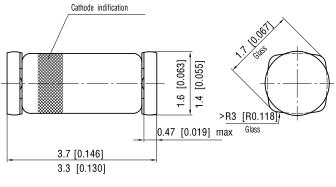


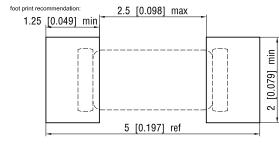
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PACKAGE DIMENSIONS in millimeters (inches): QuadroMELF SOD-80





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