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Stocking Distributor

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<u>Vishay Semiconductor/Diodes Division</u> <u>BA604-GS18</u>

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

Distributor of Vishay Semiconductor/Diodes Division: Excellent Integrated System Limite

Datasheet of BA604-GS18 - DIODE GP 50V 200MA SOD80

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



www.vishay.com

BA604

Vishay Semiconductors

Small Signal Switching Diode



FEATURES

- · Silicon planar diode
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912





APPLICATIONS

• General purpose

MECHANICAL DATA

Case: MiniMELF SOD-80
Weight: approx. 31 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), 2.5K/box

PARTS 1	S TABLE				
PART	ORDERING CODE	ING CODE TYPE MARKING INTERNAL CONSTRUCTION		REMARKS	
BA604	BA604-GS18 or BA604-GS08	-	Single diode	Tape and reel	

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reverse voltage		V_{RRM}	80	V	
Reverse voltage		V_R	50	V	
Peak forward surge current	t _p = 1 μs	I _{FSM}	2	Α	
Repetitive peak forward current		I _{FRM}	450	mA	
Forward continuous current		I _F	200	mA	
Power dissipation		P _{tot}	500	mW	

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	R _{thJA}	500	K/W	
Thermal resistance junction to lead	T _L = constant	R _{thJL}	350	K/W	
Junction temperature		Tj	175	°C	
Storage temperature range		T _{stg}	- 65 to + 175	°C	

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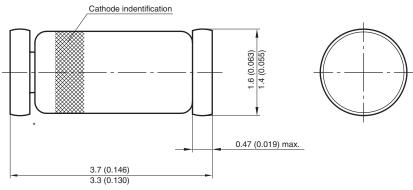
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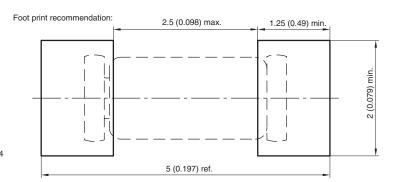
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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 50 mA	V _F			1100	mV
	V _R = 50 V	I _R			1	μΑ
Reverse current	V _R = 20 V	I _R			50	nA
	V _R = 20 V, T _j = 150 °C	I _R			50	μΑ
Breakdown voltage	I _R = 100 μA	V _(BR)	80			V
Reverse recovery time	I _F = 10 mA, I _R =10 mA i _R = 1 mA	t _{rr}			20	ns
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D			4	pF

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



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



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