

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 TABLE						
PART	ORDERING 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	A		
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		



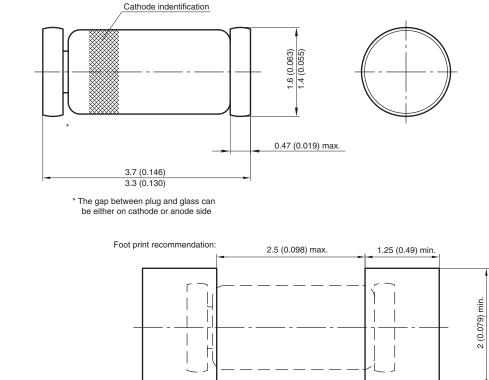
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BA604

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25 \degree C$, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	l _F = 50 mA	V _F			1100	mV
	$V_R = 50 V$	I _R			1	μA
Reverse current	V _R = 20 V	I _R			50	nA
	$V_R = 20 V, T_j = 150 °C$	I _R			50	μA
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	CD			4	pF

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



5 (0.197) ref.

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