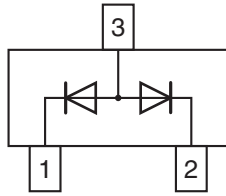




Dual Common Anode Small Signal High Voltage Switching Diode



FEATURES

- Silicon epitaxial planar diode
- Fast switching dual common anode diode, especially suited for applications requiring high voltage capability
- AEC-Q101 qualified available (part number on request)
- Base P/N-G3 - green, commercial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.1 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

PARTS TABLE				
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
GSD2004A-G	GSD2004A-G3-08 or GSD2004A-G3-18	Common anode	DBH	Tape and reel

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Continuous reverse voltage		V _R	240	V
Peak repetitive reverse voltage		V _{RRM}	300	V
Forward current (continuous)		I _F	225	mA
Peak repetitive forward current		I _{FRM}	625	mA
Non-repetitive peak forward current	t _p = 1 μs	I _{FSM}	4	A
	t _p = 1 s		1	A
Power dissipation ⁽¹⁾		P _{tot}	350	mW

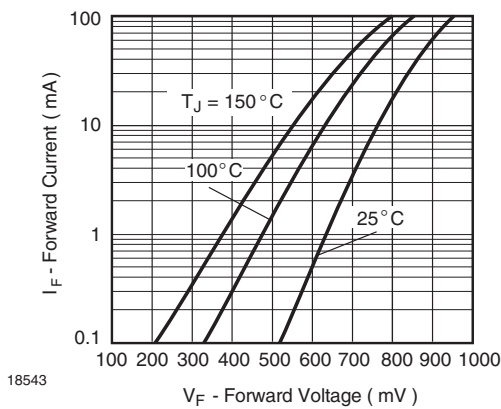
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Typical thermal resistance junction to ambient air ⁽¹⁾		R _{thJA}	357	°C/W
Junction temperature		T _j	150	°C
Storage temperature range		T _{stg}	-65 to +150	°C
Operating temperature range		T _{op}	-55 to +150	°C

Note

⁽¹⁾ Device on fiberglass substrate

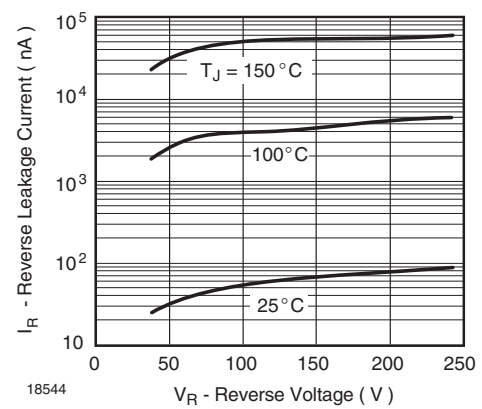
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 100 μA	V _{BR}	300			V
Leakage current	V _R = 240 V	I _R			100	nA
	V _R = 240 V, T _J = 150 °C	I _R			100	μA
Forward voltage	I _F = 20 mA	V _F		0.83	0.87	V
	I _F = 100 mA	V _F			1	V
Diode capacitance	V _F = V _R = 0, f = 1 MHz	C _D			5	pF
Reverse recovery time	I _F = I _R = 30 mA, i _R = 3 mA, R _L = 100 Ω	t _{rr}			50	ns

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



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Fig. 1 - Typical Instantaneous Forward Characteristics



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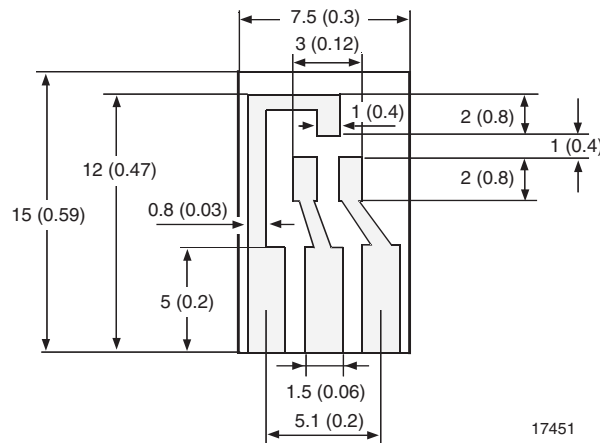
Fig. 2 - Typical Reverse Characteristics

LAYOUT FOR R_{thJA} TEST

Thickness:

Fiberglass 1.5 mm (0.059 in.)

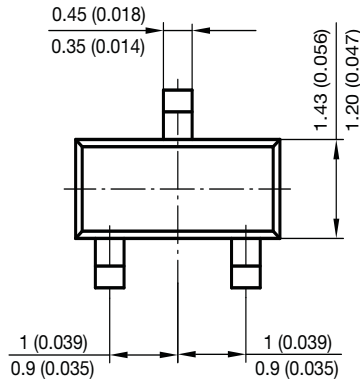
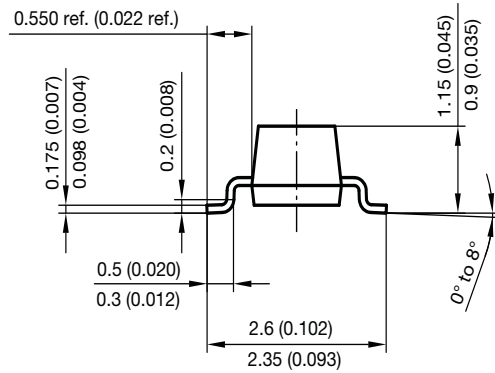
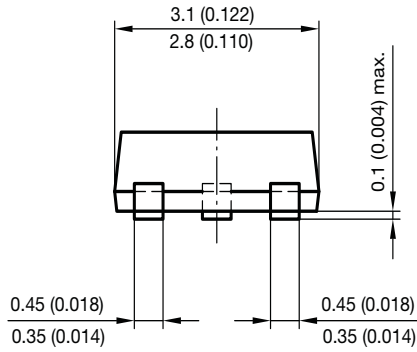
Copper leads 0.3 mm (0.012 in.)



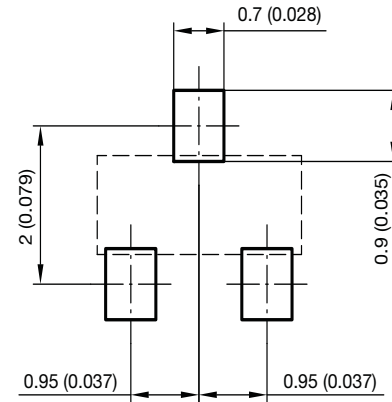
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PACKAGE DIMENSIONS in millimeters (inches): SOT-23



Foot print recommendation:



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Rev. 8 - Date: 23.Sept.2009
17418



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