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Vishay Semiconductors

Small Signal Fast Switching Diode



DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: MiniMELF (SOD-80)

Weight: approx. 31 mg

Cathode band color: black

Packaging codes / options:

08/2.5K per 7" reel (8 mm tape),12.5K/box 18/10K per 13" reel (8 mm tape),10K/box

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- Silicon epitaxial planar diodes
- Low forward voltage drop
- High forward current capability
- AEC-Q101 qualified
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

• High speed switch and general purpose use in computer and industrial applications

PARTS TABLE					
PART	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS	
LL4150-M	LL4150-M-08 or LL4150-M-18	-	Single	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}	50	V
Reverse voltage		V _R	50	V
Peak forward surge current	t _p = 1 μs	I _{FSM}	4	А
Forward continuous current		١ _F	600	mA
Average forward current	$V_R = 0$	I _{F(AV)}	300	mA
Power dissipation		P _{tot}	500	mW

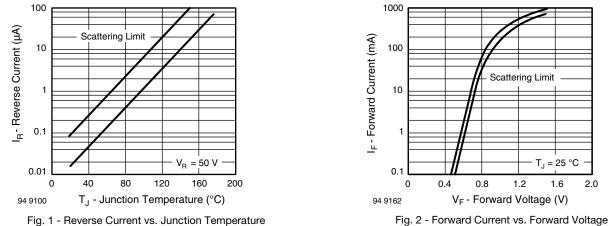
THERMAL CHARACTERISTICS ($T_{amb} = 25 \degree C$, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	On PC board 50 mm x 50 mm x 1.6 mm	R _{thJA}	300	K/W
Junction temperature		Tj	175	°C
Storage temperature range		T _{stg}	-65 to +175	°C
Operating temperature range		T _{op}	-55 to +175	°C

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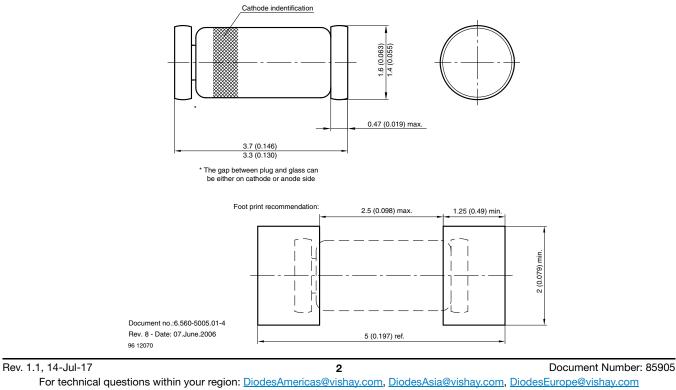
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ELECTRICAL CHARACTERISTICS ($T_{amb} = 25 \text{ °C}$, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I _F = 1 mA	V _F	0.540		0.620	V
	I _F = 10 mA	V _F	0.660		0.740	V
	I _F = 50 mA	V _F	0.760		0.860	V
	I _F = 100 mA	V _F	0.820		0.920	V
	I _F = 200 mA	VF	0.870		1	V
Reverse current	V _R = 50 V	I _R			100	nA
	V _R = 50 V, T _j = 150 °C	I _R			100	μA
Diode capacitance	V _R = 0, f = 1 MHz, V _{HF} = 50 mV	CD			2.5	pF
Reverse recovery time	$I_F = I_R = 10$ mA to 100 mA, $i_R = 0.1$ x I_R , $R_L = 100$ Ω	t _{rr}			4	ns





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



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