Vishay Semiconductors



Thermal Characteristics

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Typical thermal resistance junction to ambient air		R_{thJA}	357 ¹⁾	°C/W
Junction temperature		T _j	150	°C
Storage temperature range		T _{stg}	- 65 to + 150	°C

¹⁾ Device on Fiberglass Substrate, see layout on second page

Electrical Characteristics

T_{amb} = 25 °C, unless otherwise specified

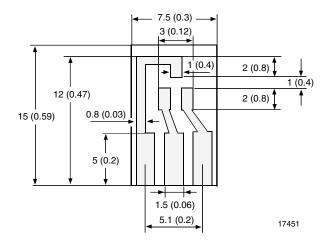
Parameter	Test condition	Symbol	Min.	Тур.	Max.	Unit
Reverse breakdown voltage	I _R = 100 μA	V_{BR}	300			V
Leakage current	V _R = 240 V	I _R			100	nA
	V _R = 240 V, T _j = 150 °C	I _R			100	μΑ
Forward voltage	I _F = 20 mA	V _F		0.83	0.87	V
	I _F = 100 mA	V _F			1.00	V
Diode capacitance	$V_F = V_R = 0$, $f = 1$ MHz	C _D			5.0	pF
Reverse recovery time	$I_F = I_R = 30$ mA, $I_{rr} = 3.0$ mA, $R_L = 100 \Omega$	t _{rr}			50	ns

¹⁾ Device on Fiberglass Substrate, see layout

Layout for R_{thJA} test

Thickness:

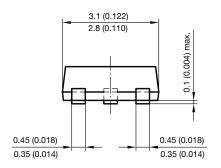
Fiberglass 1.5 mm (0.059 in.) Copper leads 0.3 mm (0.012 in.)

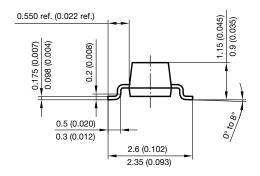


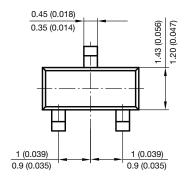


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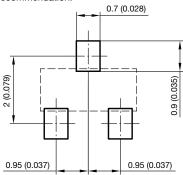
Package Dimensions in millimeters (inches): SOT-23







Foot print recommendation:



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