

Thermal Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Typical thermal resistance junction to ambient air		R_{thJA}	357 ¹⁾	$^{\circ}\text{C/W}$
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	- 65 to + 150	$^{\circ}\text{C}$

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

Electrical Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$I_R = 100\text{ }\mu\text{A}$	V_{BR}	300			V
Leakage current	$V_R = 240\text{ V}$	I_R			100	nA
	$V_R = 240\text{ V}, T_j = 150\text{ }^{\circ}\text{C}$	I_R			100	μA
Forward voltage	$I_F = 20\text{ mA}$	V_F		0.83	0.87	V
	$I_F = 100\text{ mA}$	V_F			1.00	V
Diode capacitance	$V_F = V_R = 0, f = 1\text{ MHz}$	C_D			5.0	pF
Reverse recovery time	$I_F = I_R = 30\text{ mA}, I_{rr} = 3.0\text{ mA}, R_L = 100\text{ }\Omega$	t_{rr}			50	ns

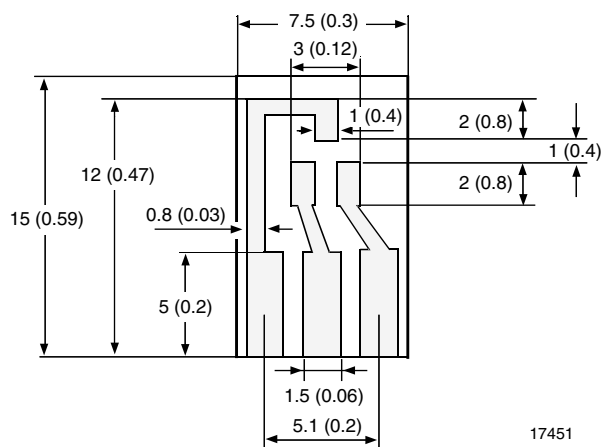
¹⁾ Device on Fiberglass Substrate, see layout

Layout for R_{thJA} test

Thickness:

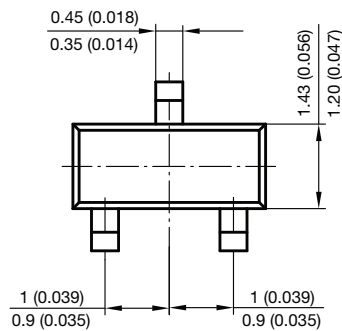
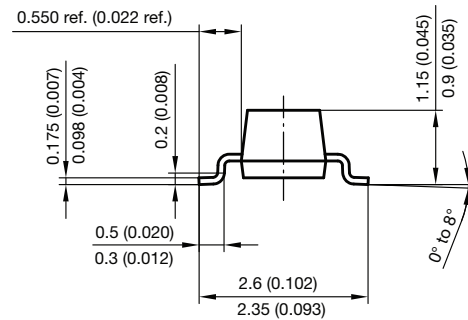
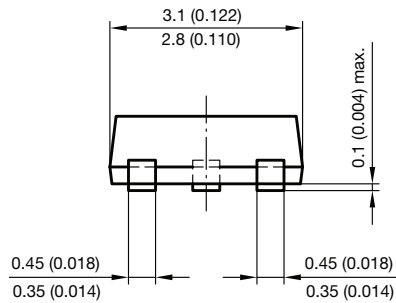
Fiberglass 1.5 mm (0.059 in.)

Copper leads 0.3 mm (0.012 in.)

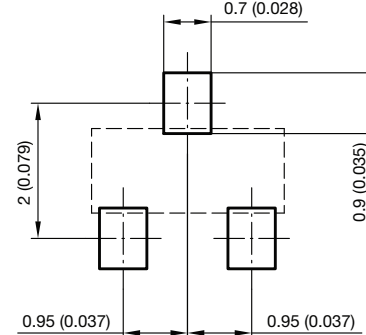


17451

Package Dimensions in millimeters (inches): SOT-23



Foot print recommendation:



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 17418



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