ES1JFL

THERMAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	ymbol Characteristic		Unit	
$R_{\theta JA}$	R _{0JA} Typical Thermal Resistance, Junction-to-Ambient (Note 1)		°C/W	
$R_{ heta JC}$	Typical Thermal Resistance, Junction-to-Case (Note 2)	30	°C/W	

^{1.} Mounted on an FR4 PCB, single-sided copper, mini pad.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _F	Forward Voltage	I _F = 1 A	-	-	1.7	V
I _R	Reverse Current	V _R = 600 V	-	-	0.5	μΑ
		V _R = 600 V, T _A = 100°C	-	-	10	
СЈ	Capacitance	V _R = 4 V, f = 1.0 MHz	-	7	-	pF
T _{rr}	Reverse Recovery Time	I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	-	22.55	35.00	ns

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

Part Number	Top Mark	Package	Shipping [†]
ES1JFL	E1J	SOD-123F (Pb-Free/Halogen Free)	3000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

TYPICAL PERFORMANCE CHARACTERISTICS

^{2.} Mounted on an FR4 PCB, single-sided copper, with 10 cm x 10 cm copper pad area.

ES1JFL

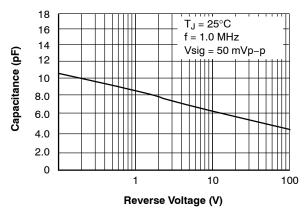


Figure 1. Typical Junction Capacitance

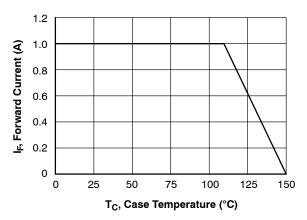


Figure 2. Forward Current Derating Curve

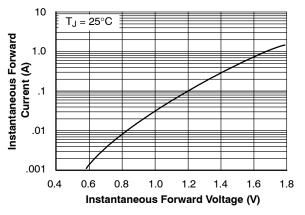


Figure 3. Typical Forward Characteristics

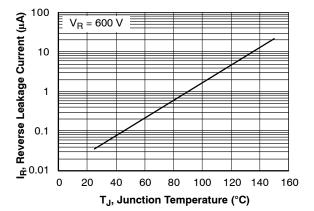


Figure 4. Typical Leakage Current vs. Junction Temperature

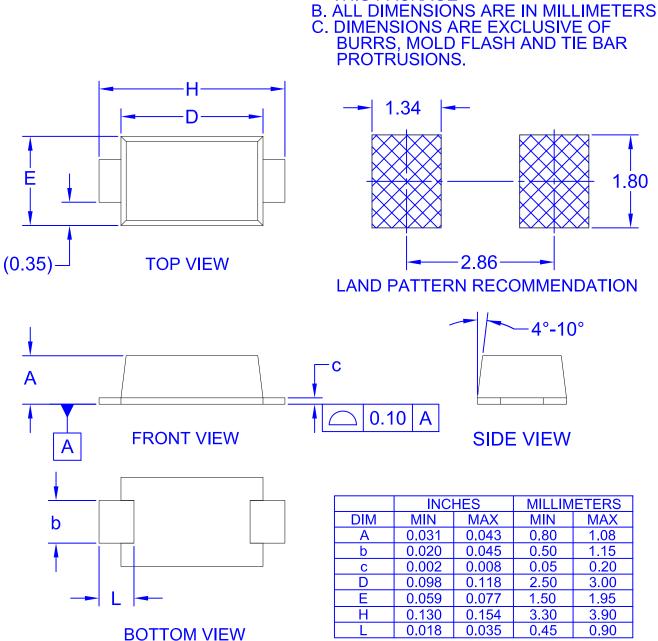


SOD-123FL CASE 425AD **ISSUE A**

DATE 04 AUG 2017

NOTES:

- A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE



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