THERMAL PERFORMANCE

PARAMETER	SYMBOL	TYP	UNIT
Junction-to-ambient thermal resistance	$R_{\Theta JA}$	625	°C/W

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

PARAMETER		CONDITIONS	SYMBOL	MIN	MAX	UNIT
Forward voltage[1]	1N4448WS 1N914BWS	I_F = 5 mA, T_J = 25°C	V_F	0.62	0.72	V
	1N4148WS	I_F =10 mA, T_J = 25°C		-	1.00	V
	1N4448WS 1N914BWS	I_F =100 mA, T_J = 25°C		-	1.00	V
Reverse voltage		I_R = 5μA, T_J = 25°C	V_R	75	-	V
		I_R = 100μA, T_J = 25°C		100	-	V
Reverse current @ rated V_R[2]		V_R = 20V, T_J = 25°C	I_R	-	25	nA
		V_R = 75V, T_J = 25°C		-	5	μA
Junction capacitance		1MHz, V_R = 0V	C_J	-	4	pF
Reverse recovery time		I_F = 10mA, I_R = 60mA, R_L = 100Ω, I_{RR} = 1mA	t_{rr}	-	4	ns

Notes:

1. Pulse test with PW = 0.3ms
2. Pulse test with PW = 30ms

ORDERING INFORMATION

ORDERING CODE[1]	PACKAGE	PACKING
1N4148WS RRG	SOD-323F	3K / 7" Reel
1N4148WS RR	SOD-323F	3K / 7" Reel
1N4148WS R9G	SOD-323F	10K / 13" Reel
1N4148WS R9	SOD-323F	10K / 13" Reel
1N4448WS RRG	SOD-323F	3K / 7" Reel
1N4448WS RR	SOD-323F	3K / 7" Reel
1N4448WS R9G	SOD-323F	10K / 13" Reel
1N4448WS R9	SOD-323F	10K / 13" Reel
1N914BWS RRG	SOD-323F	3K / 7" Reel
1N914BWS RR	SOD-323F	3K / 7" Reel
1N914BWS R9G	SOD-323F	10K / 13" Reel
1N914BWS R9	SOD-323F	10K / 13" Reel

Notes:

1. "G" means green compound (halogen-free according to IEC 61249-2-21)

CHARACTERISTICS CURVES

(T_A = 25°C unless otherwise noted)

Fig.1 Forward Voltage VS. Forward Current

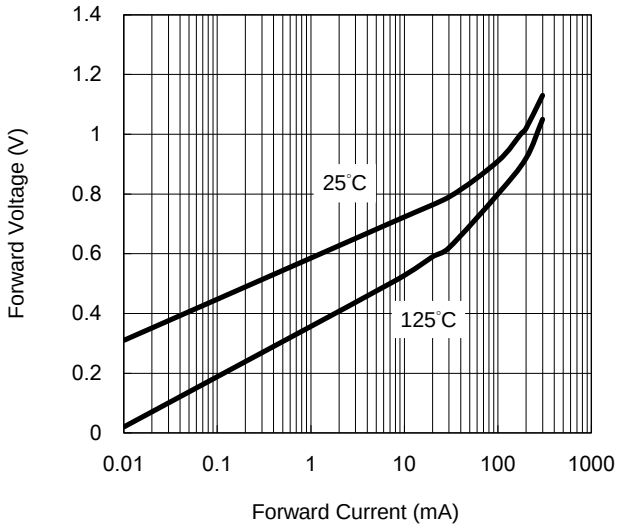


Fig.2 Reverse Current vs Reverse Voltage

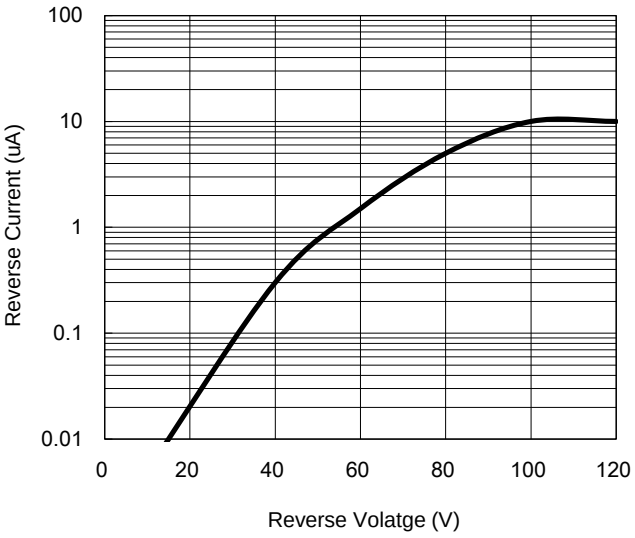


Fig.3 Admissible Power Dissipation Curve

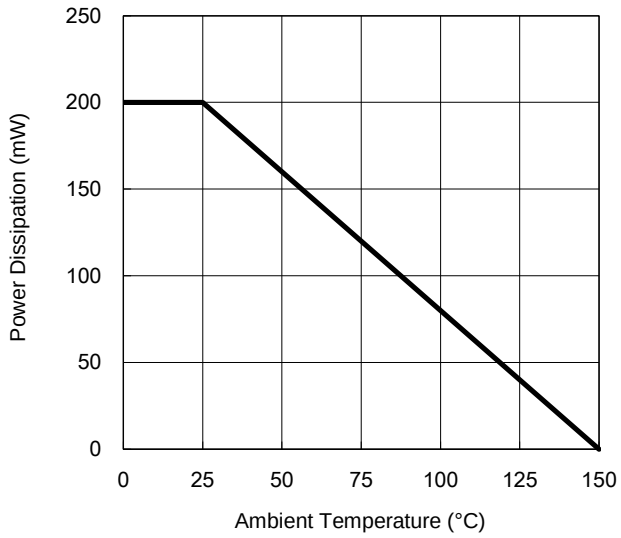
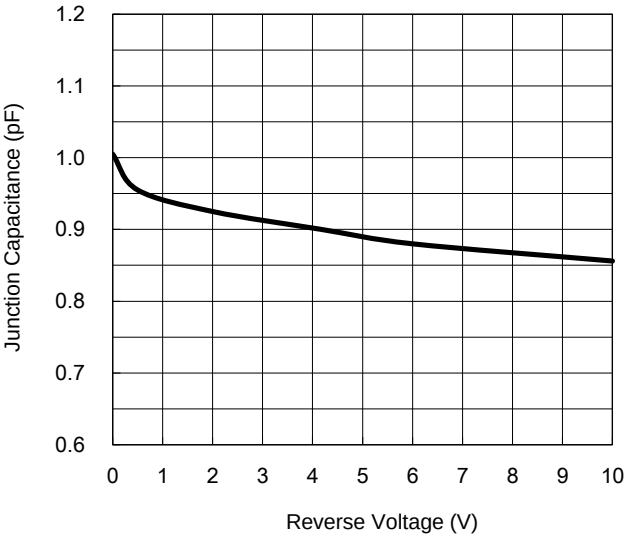
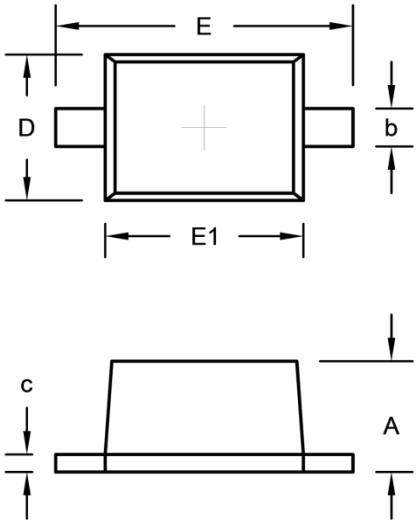


Fig.4 Typical Junction Capacitance



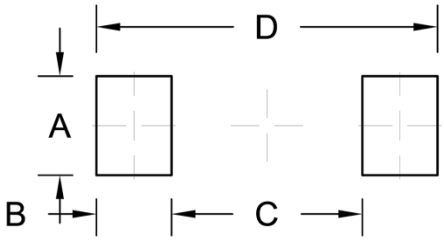
PACKAGE OUTLINE DIMENSIONS

SOD-323F



DIM.	Unit (mm)		Unit (inch)	
	Min.	Max.	Min.	Max.
A	0.80	1.10	0.031	0.043
b	0.25	0.40	0.010	0.016
c	0.05	0.25	0.002	0.010
D	1.15	1.35	0.045	0.053
E	2.30	2.80	0.091	0.110
E1	1.60	1.80	0.063	0.071

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	0.83	0.033
B	0.63	0.025
C	1.60	0.063
D	2.86	0.113

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