

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN	MAX	UNIT
Forward voltage ⁽¹⁾	$I_F = 0.1\text{mA}, T_J = 25^\circ\text{C}$	V_F	-	0.24	V
	$I_F = 1.0\text{mA}, T_J = 25^\circ\text{C}$			0.32	
	$I_F = 10\text{mA}, T_J = 25^\circ\text{C}$			0.40	
	$I_F = 30\text{mA}, T_J = 25^\circ\text{C}$			0.50	
	$I_F = 100\text{mA}, T_J = 25^\circ\text{C}$			1.00	
Reverse voltage	$I_R = 100\ \mu\text{A}, T_J = 25^\circ\text{C}$	V_R	30	-	V
Reverse current ⁽²⁾	$V_R = 25\text{V}, T_J = 25^\circ\text{C}$	I_R	-	2	μA
Total capacitance	$f=1\text{MHz}, V_R=1\text{V}$	C_T	-	10	pF
Reverse recovery time	$I_F = 10\text{mA},$ $I_R = 10\text{mA to } 1\text{mA},$ $R_L = 100\Omega$	t_{rr}	-	5	ns

Notes:

1. Pulse test with $PW=0.3\text{ ms}$
2. Pulse test with $PW=30\text{ ms}$

ORDERING INFORMATION

ORDERING CODE	PACKAGE	PACKING
BAT54GW RHG	SOD-123	3K / 7" Reel

CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Typical Forward Characteristics

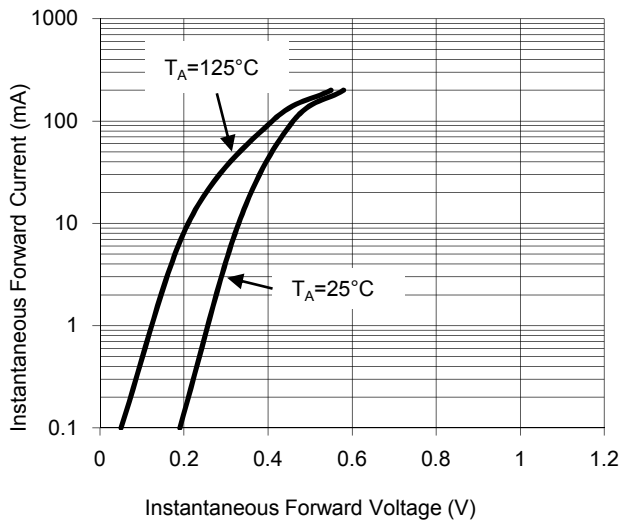


Fig.2 Typical Reverse Characteristics

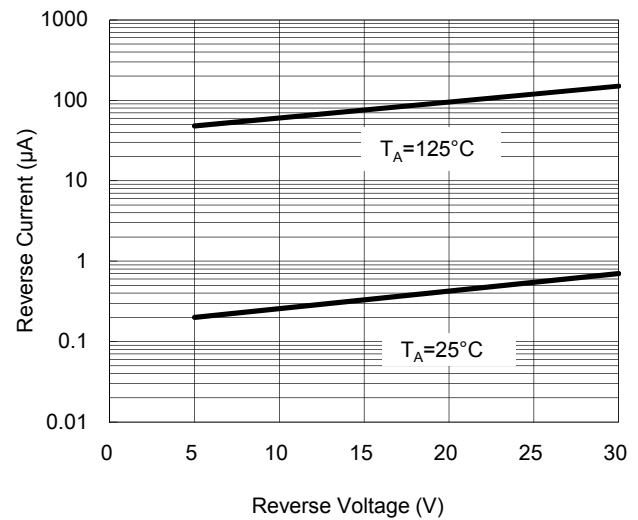


Fig.3 Typical Capacitance Characteristics

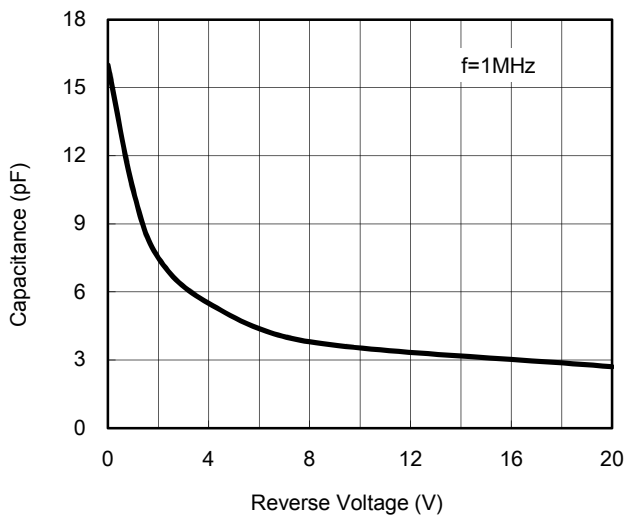
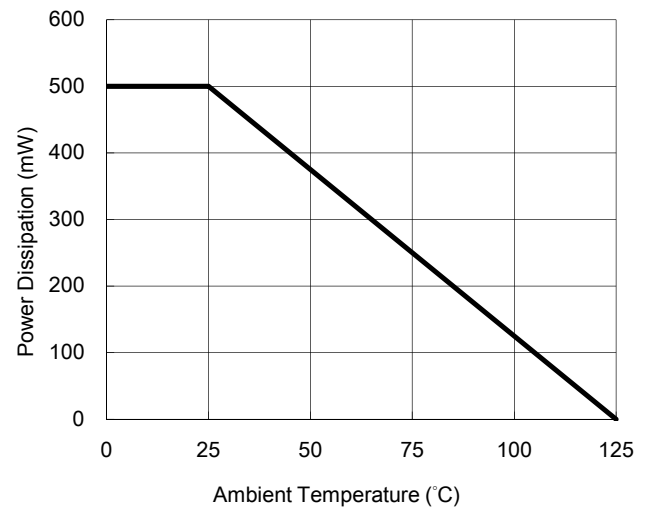
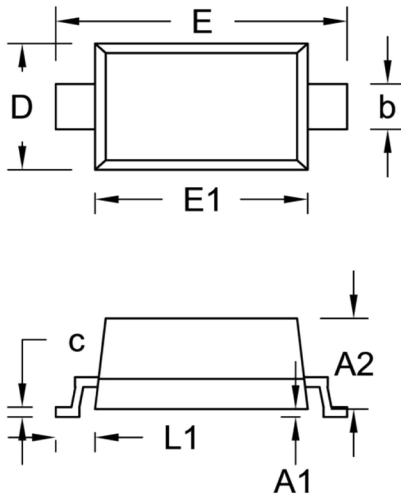


Fig.4 Power Derating Curve



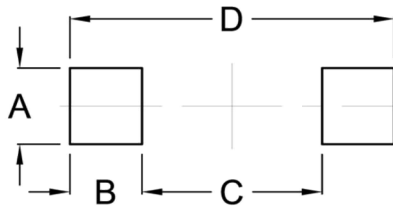
PACKAGE OUTLINE DIMENSION

SOD-123



DIM.	Unit (mm)		Unit (inch)	
	Min.	Max.	Min.	Max.
A1	-	0.10	-	0.004
A2	0.95	1.35	0.037	0.053
b	0.45	0.70	0.018	0.028
c	0.05	0.15	0.002	0.006
D	1.40	1.80	0.055	0.071
E	3.55	3.85	0.140	0.152
E1	2.55	2.85	0.100	0.112
L1	0.50 (REF)		0.020 (REF)	

SUGGEST PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	0.95	0.037
B	0.90	0.035
C	2.25	0.089
D	4.05	0.159

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