

**Silicon Epitaxial Planar Schottky Barrier Diode**
**Features**

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

**Applications**

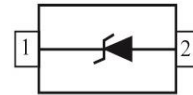
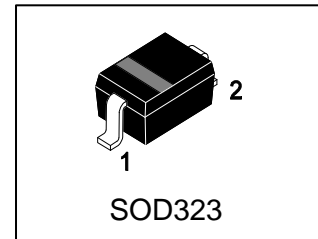
- High speed switching

**Marking**

- “5” or “E4”


**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode


**Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)**

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	40	V
Reverse Voltage	V <sub>R</sub>	30	V
Average Forward Rectifying Current	I <sub>F(AV)</sub>	300	mA
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I <sub>FSM</sub>	600	mA
Power Dissipation	PD	0.2	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

**Characteristics at T<sub>a</sub> = 25 °C**

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at I <sub>F</sub> = 1 mA	V <sub>F</sub>	-	0.37	V
Reverse Current at V <sub>R</sub> = 30 V	I <sub>R</sub>	-	0.5	μA
Capacitance Between Terminals at V <sub>R</sub> = 1 V, f = 1 MHz	C <sub>T</sub>	2	-	pF

Note: ESD sensitive product handling required.

FR-4 Board = 5 x 5 cm. Minimum Pad Layout

## Silicon Epitaxial Planar Schottky Barrier Diode ELECTRICAL CHARACTERISTICS CURVE

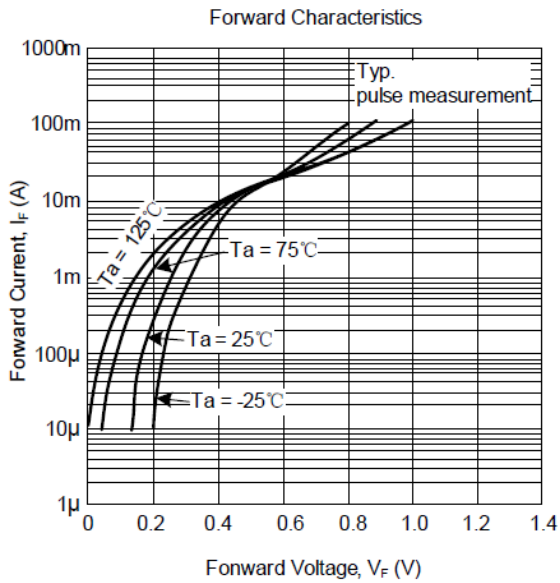


Fig.1 - Forward Characteristics

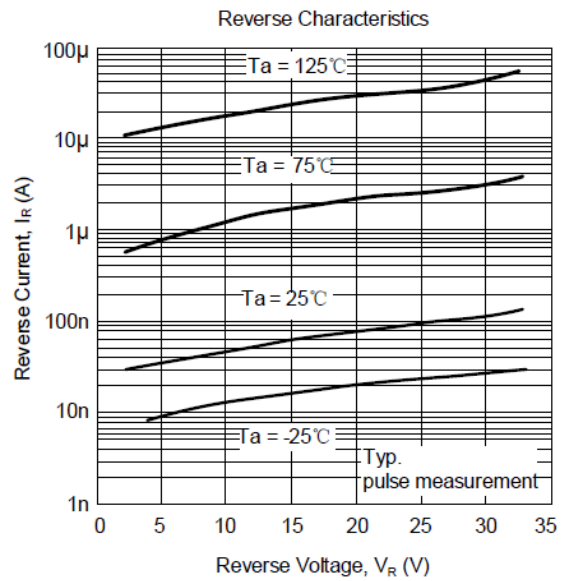


Fig.2 -Reverse Characteristics

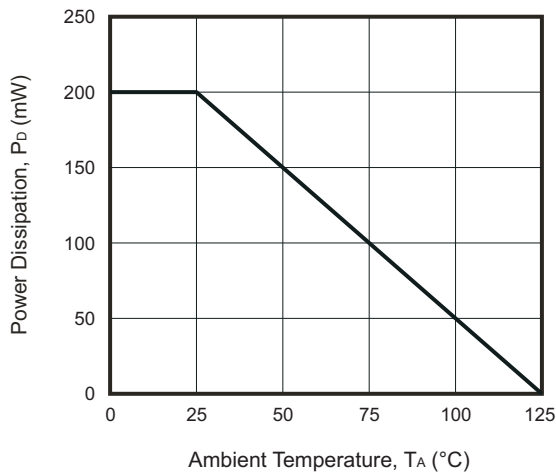


Fig.3 - Power Derating Curve

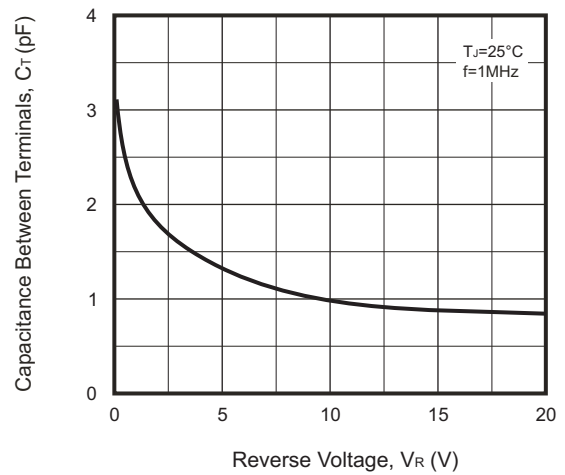
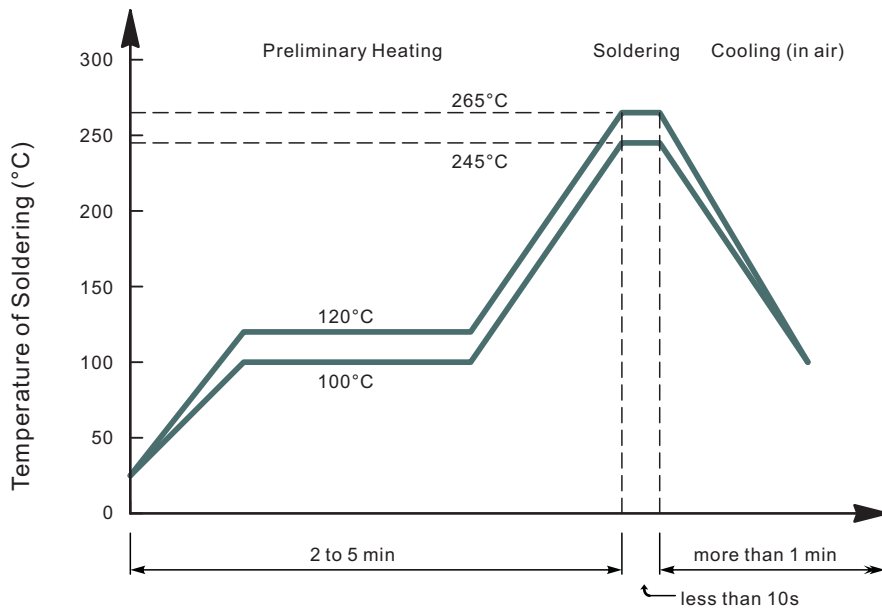
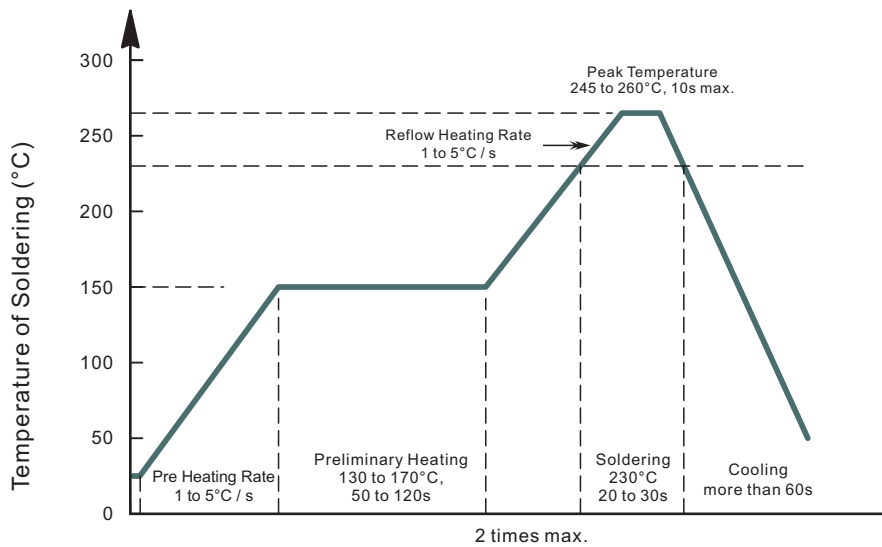
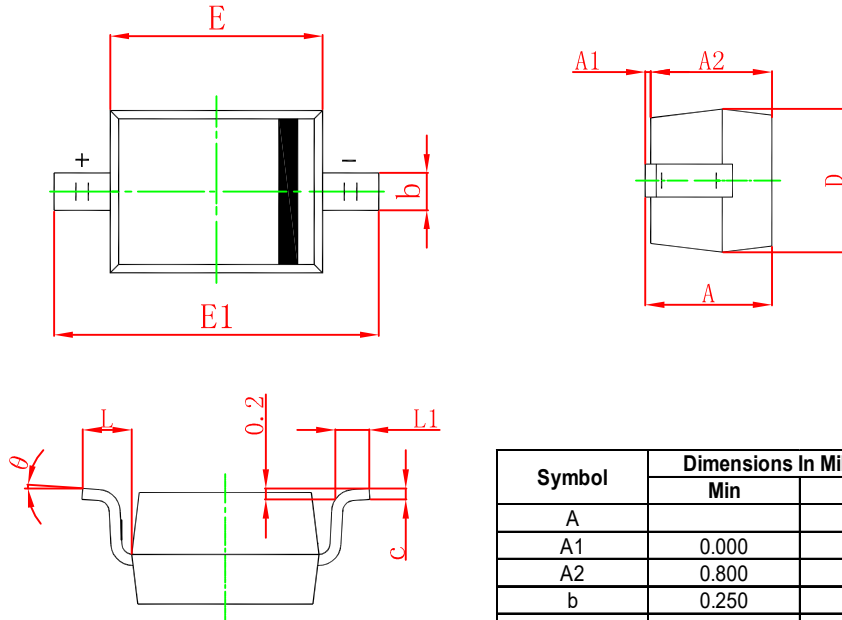
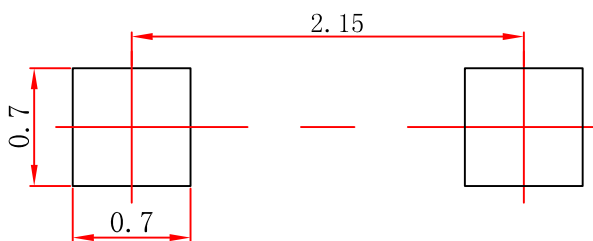


Fig.4 - Capacitance Characteristics

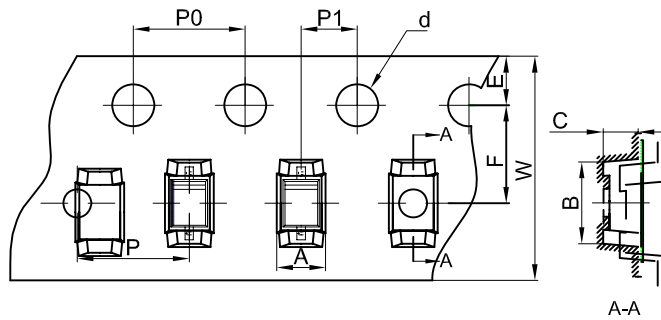
**Silicon Epitaxial Planar Schottky Barrier Diode**
**• Recommended condition of flow soldering**

**• Recommended condition of reflow soldering**


**SOD-323 Package Outline Dimensions Silicon Epitaxial Planar Schottky Barrier Diode**


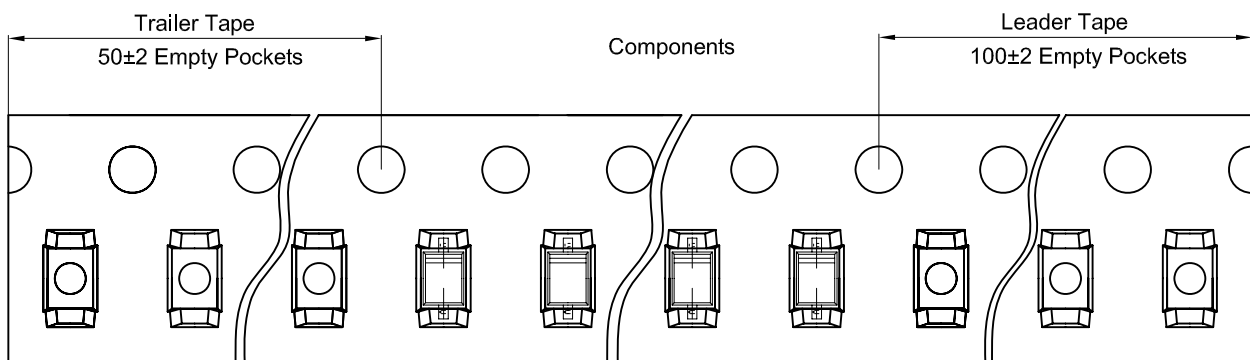
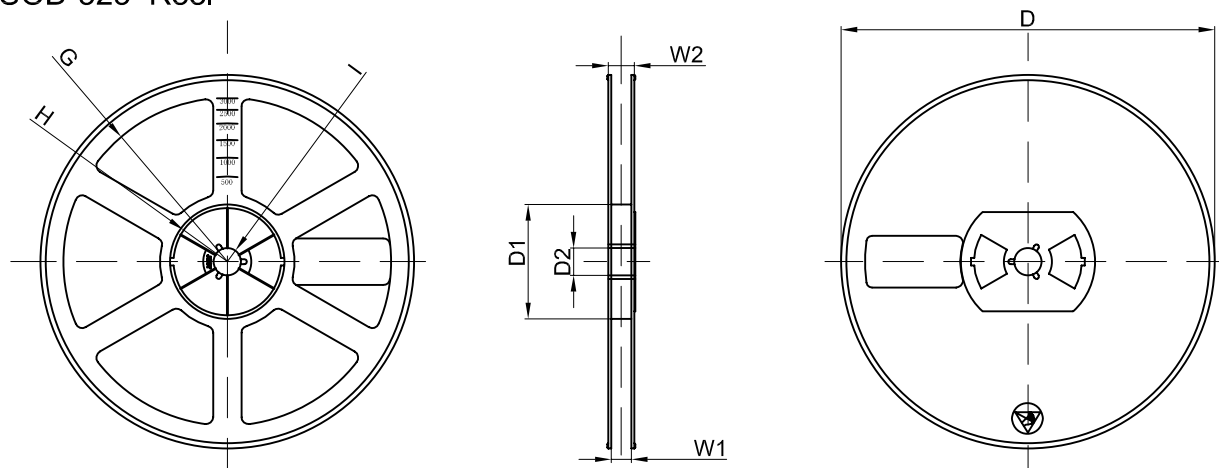
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

**SOD-323 Suggested Pad Layout**

**Note:**

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.

**Silicon Epitaxial Planar Schottky Barrier Diode**
**Tape and Reel Specification**


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.46	2.90	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

**SOD-323 Tape Leader and Trailer**

**SOD-323 Reel**


Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30
Tolerance	+/-2	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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