

B5819LW
Rev.B Jul.-2024

SOD-123
Schottky Diode in a SOD-123 Plastic Package.

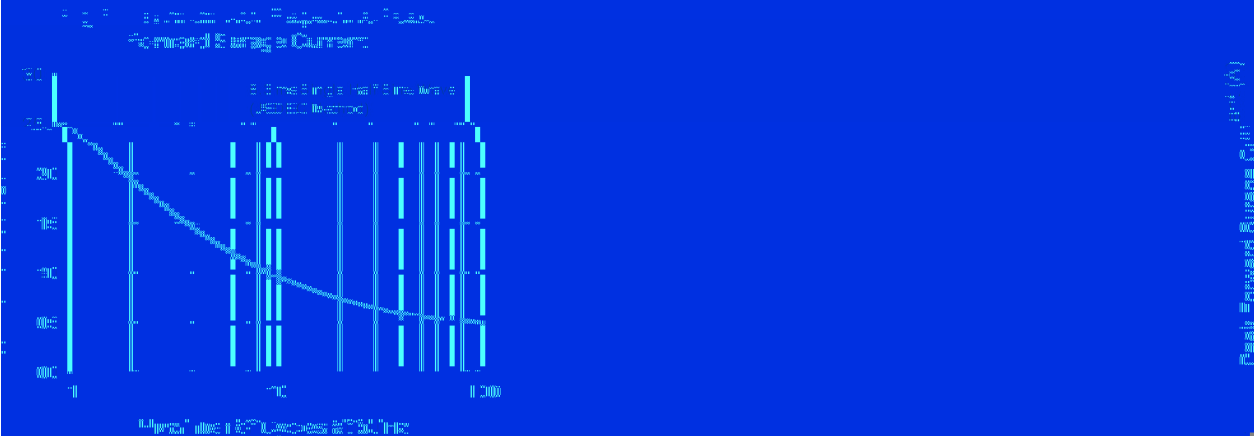
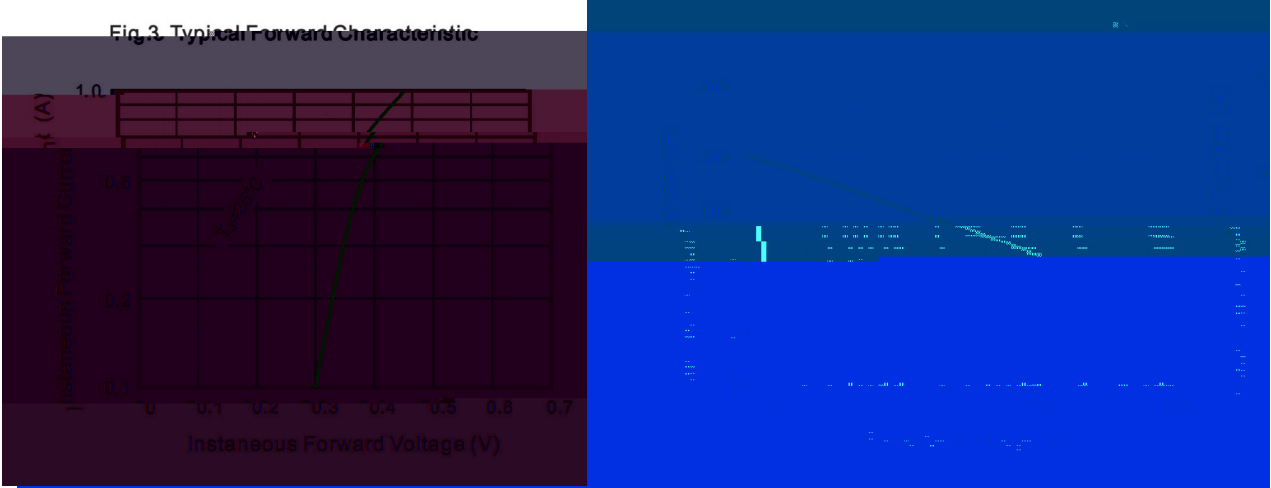
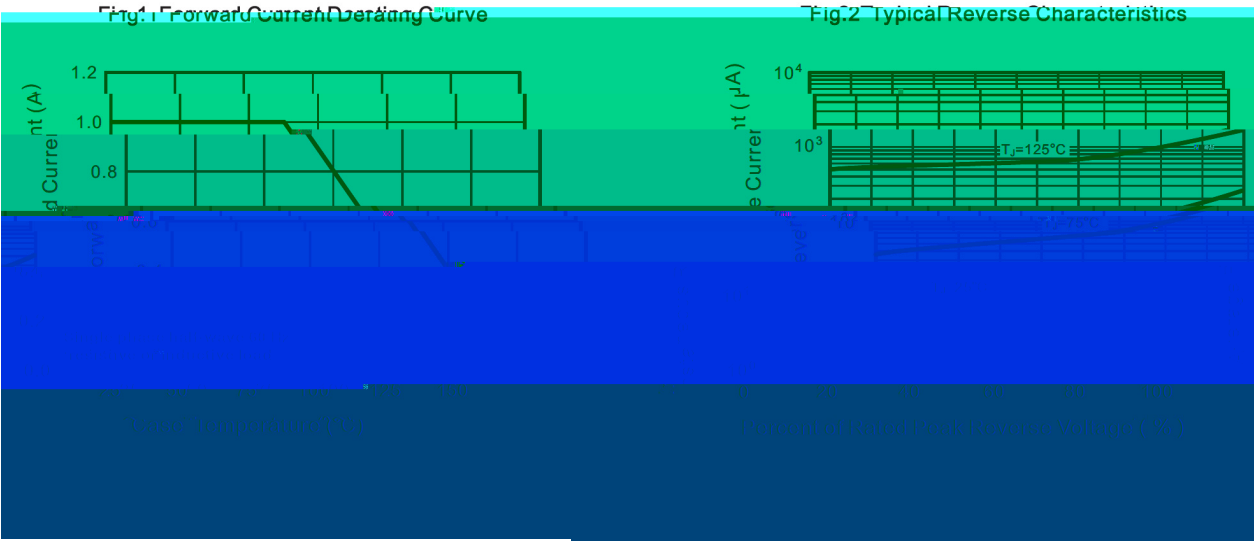
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	$V_{R\ RMS}$	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	25	A
Typical Junction Capacitance	C_j	110	pF
Junction and Storage Temperature Range	T_J, T_{stg}	-55 to 125	

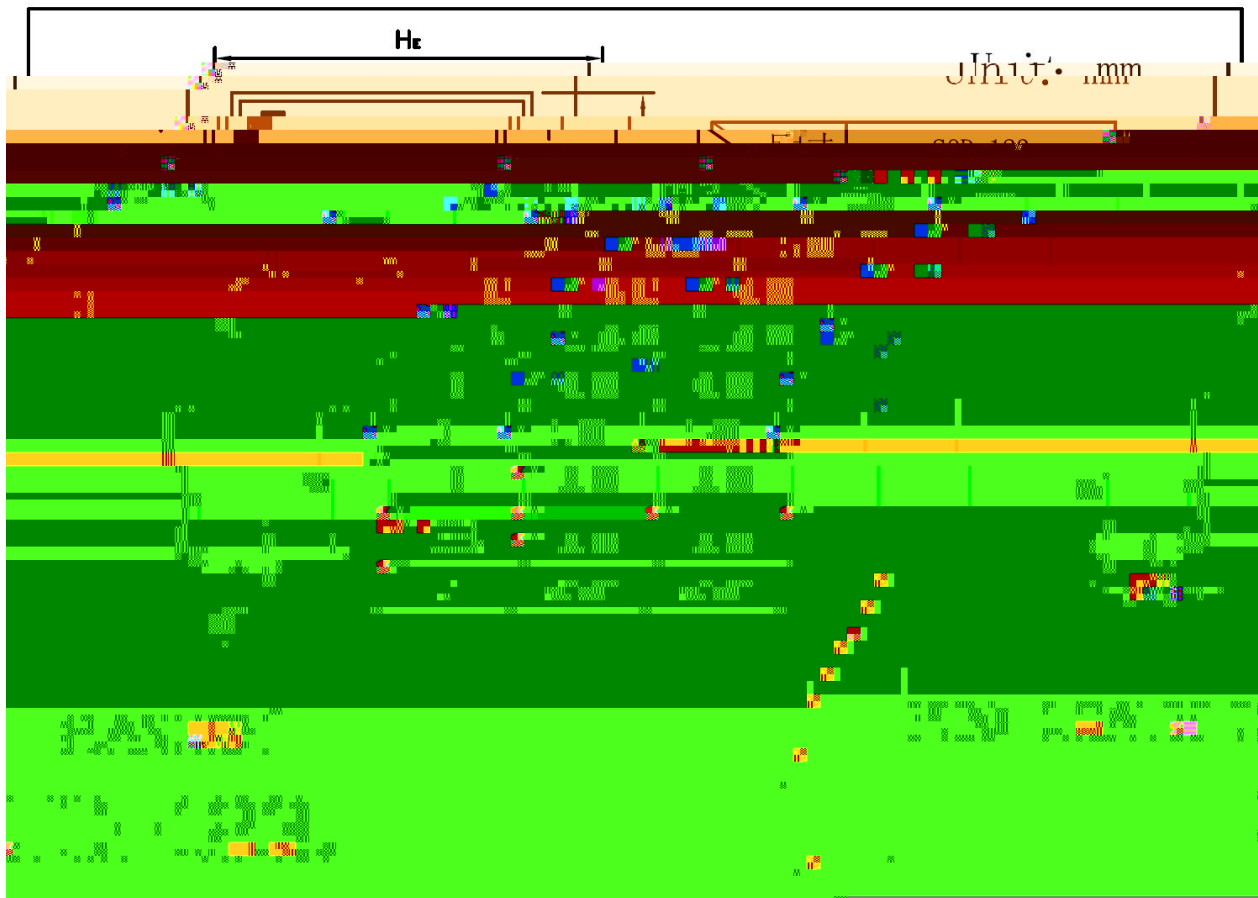
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating			Unit
			Min	Typ	Max	
Forward Voltage	V_F	$I_F=100mA$			0.315	V
		$I_F=1A$			0.48	
		$I_F=2A$			0.50	
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	I_R	$T_A = 25^{\circ}C$			1	mA
		$T_A = 100^{\circ}C$			10	

/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



SL

Note:

SL: Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 °C , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 °C , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices