

Schottky Barrier Diodes

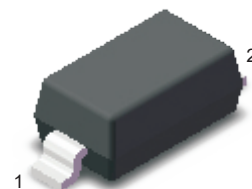
Features

- High current capability
- Low power loss, high efficiency
- Guarding for overvoltage protection

Mechanical Data

- SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

SOD-123



1.Cathode —  — 2.Anode

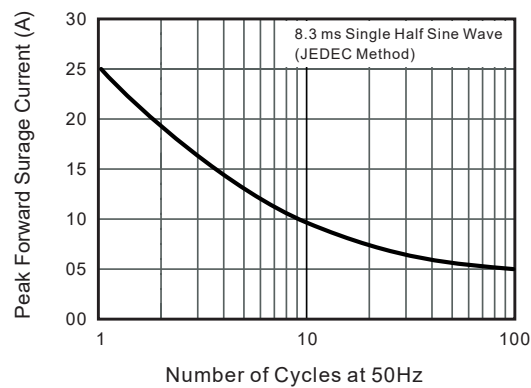
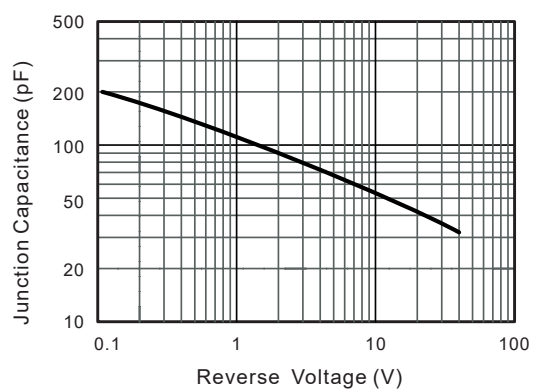
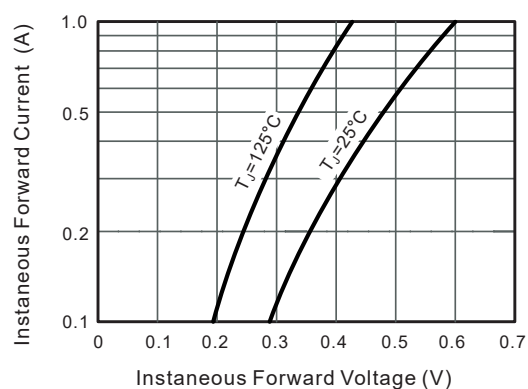
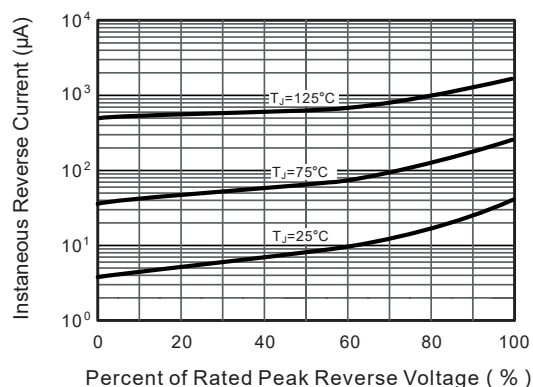
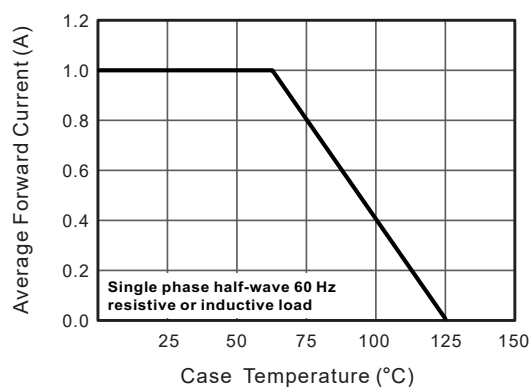
Marking Code :

1N5817W: SJ
1N5817W: SK
1N5817W: SL

Maximum Ratings & Electrical Characteristics (T_A=25°C unless otherwise noted.)

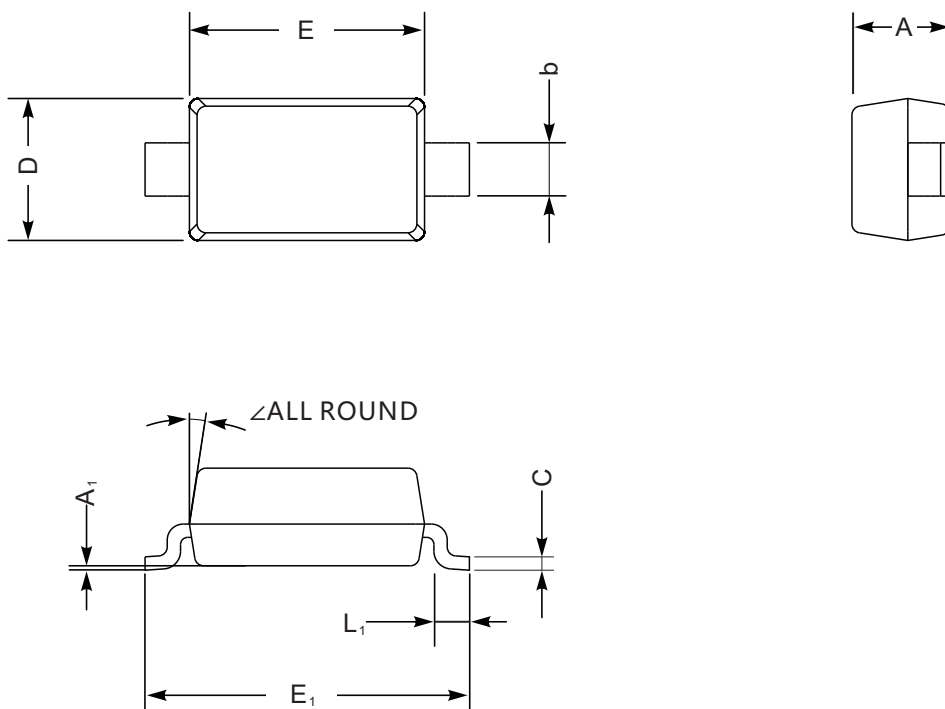
Parameter	Symbols	1N5817W	1N5818W	1N5819W	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0			A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	25			A
Maximum Instantaneous Forward Voltage at 1 A at 3 A	V _F	0.45 0.75	0.55 0.875	0.6 0.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A = 25°C at T _A = 100°C	I _R	1 10			mA
Typical Junction Capacitance	C _j	110			pF
Operating Junction Temperature	T _J	125			°C
Storage Temperature Range	T _{STG}	-55 to +125			°C

Typical Characteristics



SOD-123 Package Outline

Dimensions in mm



SOD-123 mechanical data

UNIT		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	—	