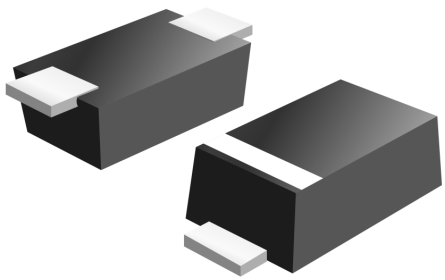
1N5819W

SCHOTTKY BARRIER DIODE

Features

- Forward Continuous Current:IFM =350mA
- Power Dissipation of 400mw

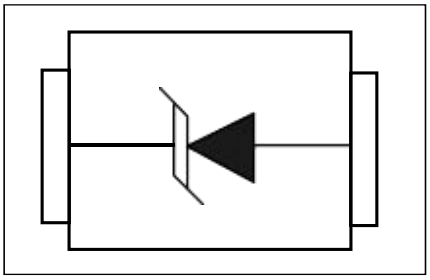
SOD-123FL(Bottom view)



Mechanical Characteristics

- Package:SOD-123FL
- Packaging:Tape and Reel per EIA 481

Schematic Diagram



Absolute Maximum Rating(Ratings at 25 °C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_{FM}	Forward Continuous Current	350	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	A
P_D	Power Dissipation	400	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	250	℃/W
T_j	Junction Temperature	125	℃
T_{stg}	Storage Temperature	-55~+150	℃

Electrical Characteristics(Tc=25℃ Unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	40			V
Reverse current	I_R	V_R=30V			5	μA
		V_R=20V			2	
		V_R=10V			1	
Forward voltage	V_F	I_F=1mA		0.27		V
		I_F=5mA		0.32		
		I_F=20mA			0.37	
		I_F=200mA			0.6	
Total capacitance	C_{tot}	V_R=0V,f=1MHz		50		pF
Reverse recovery time	t_{rr}	I_F= I_R=200mA, I_{rr}=0.1×I_R, R_L=100Ω		10		ns

Typical Characteristics Curves

Fig.1 Forward Current Derating Curve

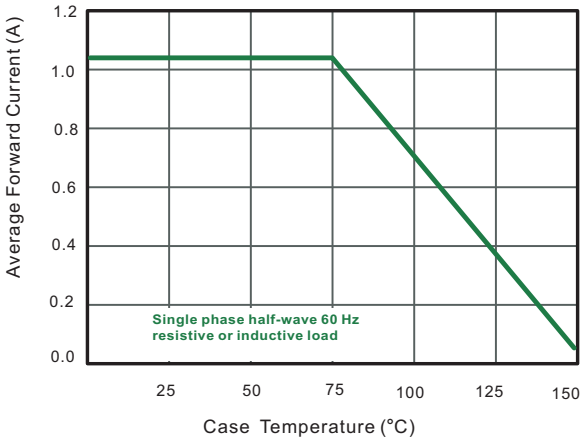


Fig.2 Typical Reverse Characteristics

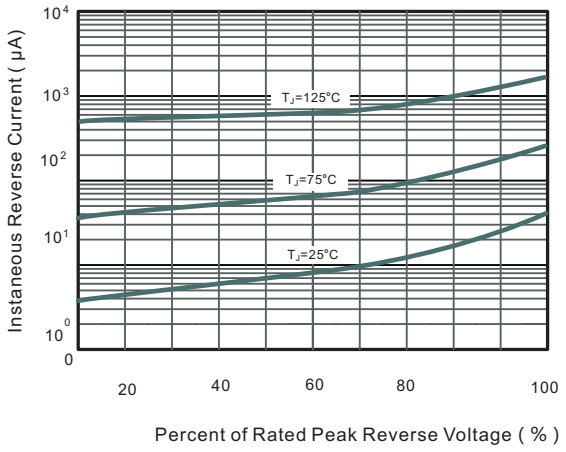


Fig.3 Typical Junction Capacitance

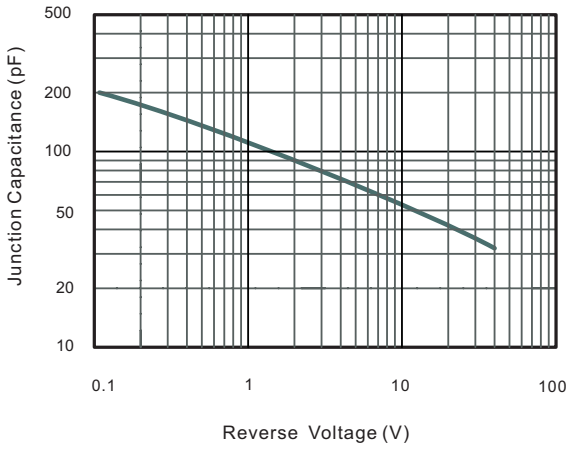
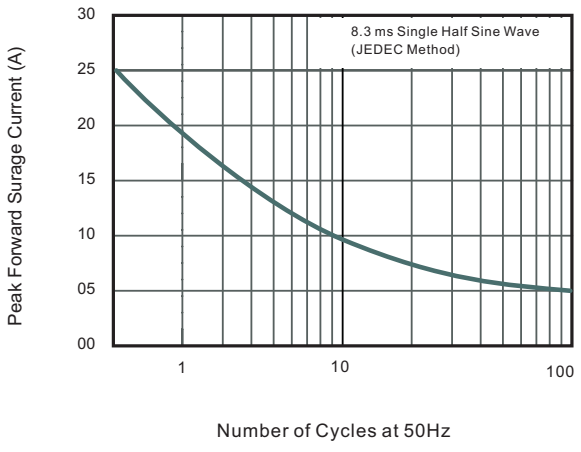
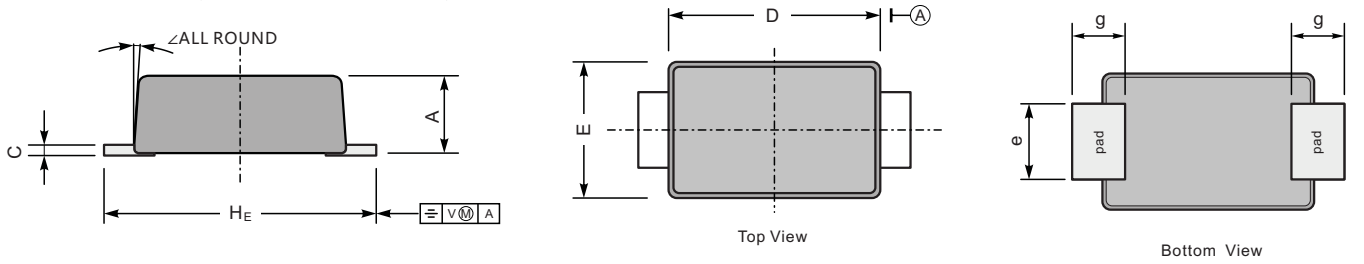


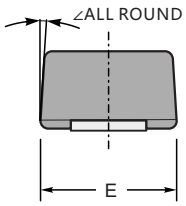
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



Outline Drawing

SOD-123FL(Dimensions in mm)





UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

Package Information

Package Type	Description	Quantity（pcs）	Standard
SOD-123FL	Tape & Reel -7″ tape	3000	EIA-481

Contact Information

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For additional information, please contact your local Sales Representative.

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