

SOD-123FL Surface Mount Schottky Barrier Rectifier

Features

- V_R 40V/60V/100V
- $I_{F(AV)}$ 1A
- Low profile package
- Ideal for automated placement
- Low forward and reverse recovery times

Reverse Voltage
40/60/100 V
Forward Current
1.0 Ampere

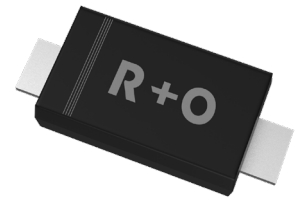
Applications

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

Mechanical Data

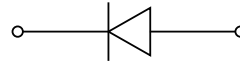
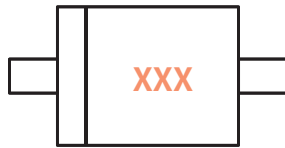
- Case: SOD-123FL
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

SOD-123FL



Function Diagram

Marking:
DSL14:L14
DSL16:L16
DSL110:L110



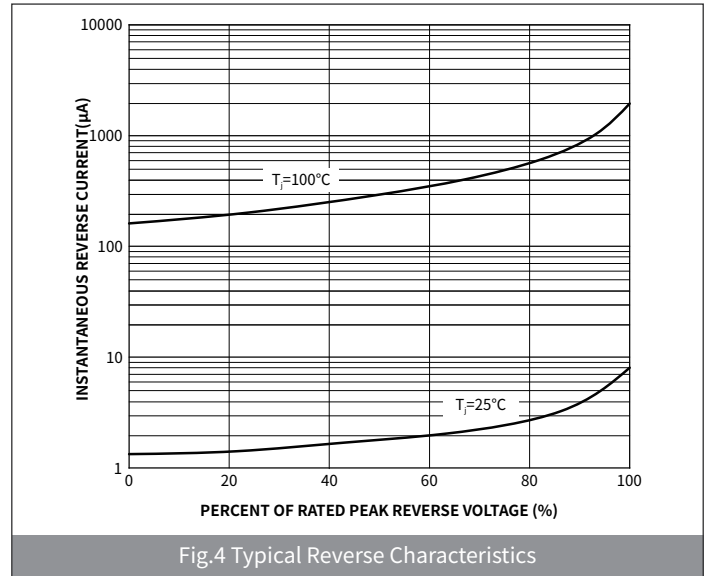
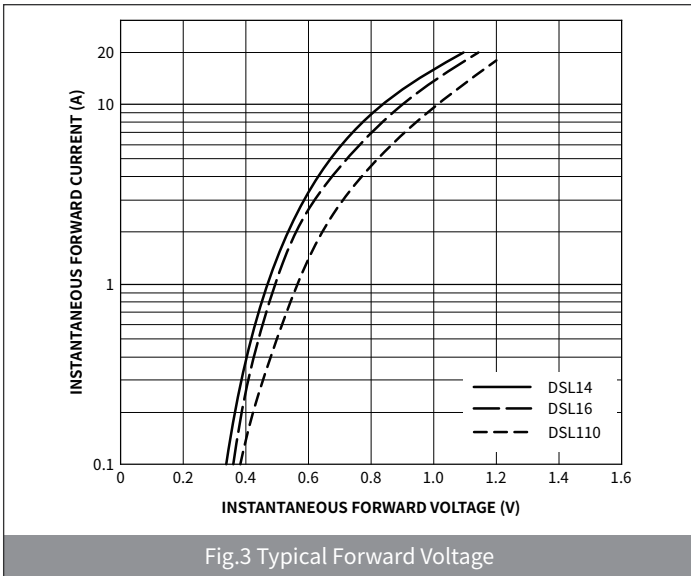
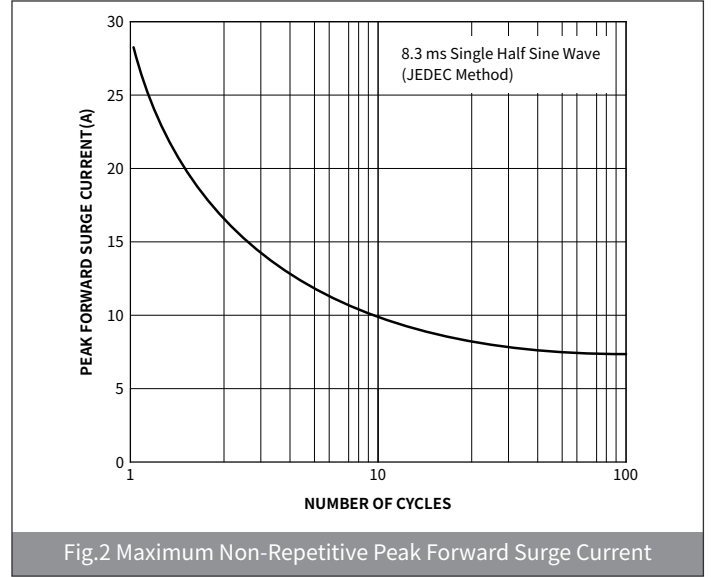
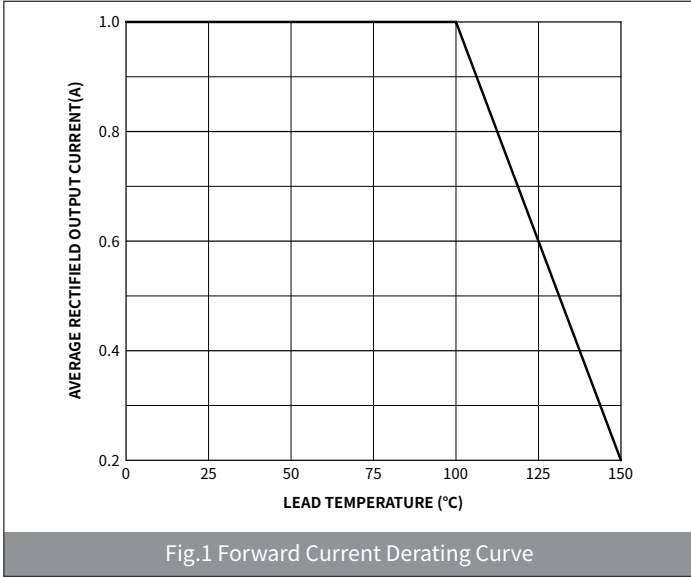
Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DSL14	DSL16	DSL110
Maximum repetitive peak reverse voltage	V_{RRM}	V	40	60	100
Maximum RMS voltage	V_{RMS}	V	28	42	70
Maximum DC blocking voltage	V_{DC}	V	40	60	100
Maximum Average Forward Rectified Current	$I_{F(AV)}$	A	1.0		
Non-repetitive Peak Forward Surge Current @t=8.3ms Half-sine wave	I_{FSM}	A	30		
Storage temperature	T_{stg}	°C	-55~+150		
Junction temperature	T_j	°C	-55 ~+150		
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W	90		

● **Electrical Characteristics** (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DSL14	DSL16	DSL110
Maximum instantaneous forward voltage	$I_F=1.0A$	V_{F1}	V	0.45	0.50	0.60
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ C$	I_{R1}	mA	0.2		
	$V_R=V_{DC}, T_A=100^\circ C$	I_{R2}		5.0		

● **Ratings And Characteristics Curves** (Ta=25°C Unless otherwise specified)



DSL14 THRU DSL110

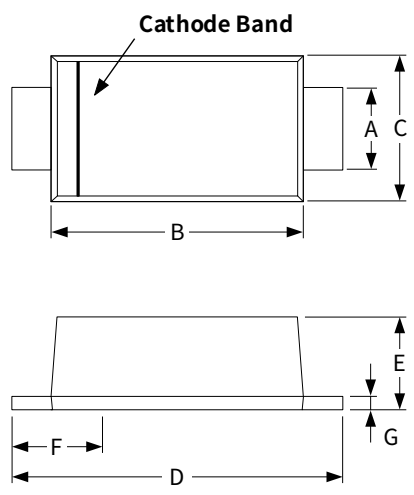
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

● Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SOD-123FL	R1	0.0169	3000	45000	180000	7"

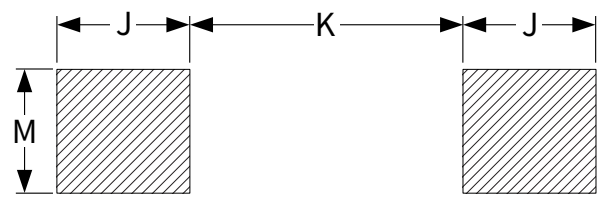
● Package Outline Dimensions (SOD -123FL)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.90	1.10	0.035	0.430
B	2.55	2.85	0.100	0.111
C	1.60	1.90	0.063	0.074
D	3.60	3.90	0.031	0.043
E	1.00	1.20	0.031	0.035
F	0.40	0.90	0.047	0.055
G	0.10	0.25	0.003	0.007



● Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	1.00	-	0.040	-
K	-	1.90	-	0.074
M	1.50	-	0.059	-



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