

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

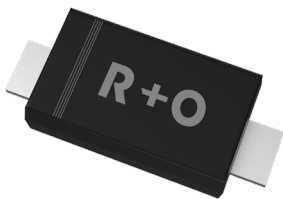
These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

Mechanical Data

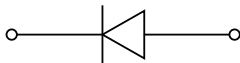
- Case: SOD-123FL
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

Function Diagram

SOD-123FL



Marking:
DSL14:L14
DSL16:L16
DSL110:L110



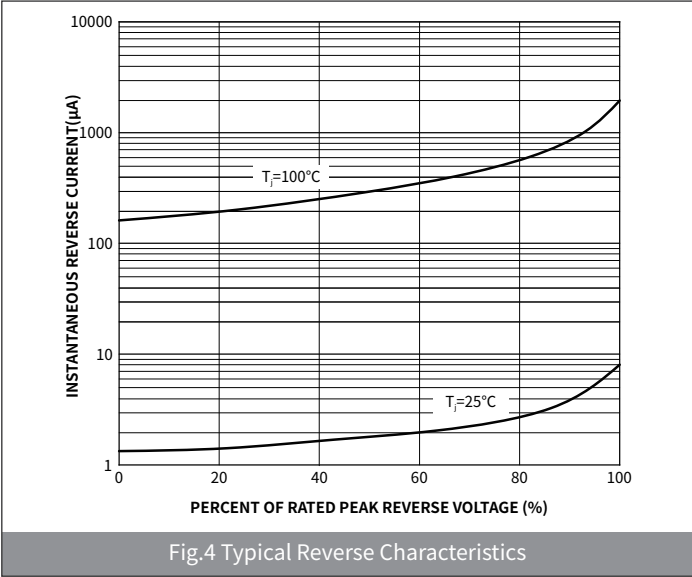
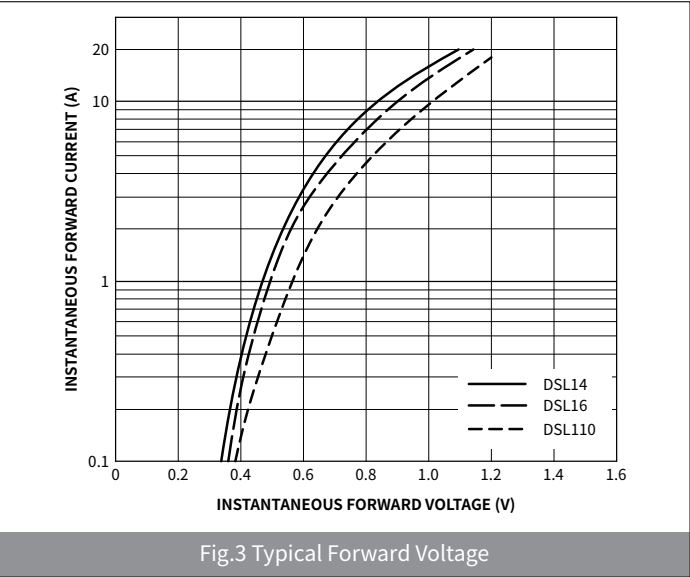
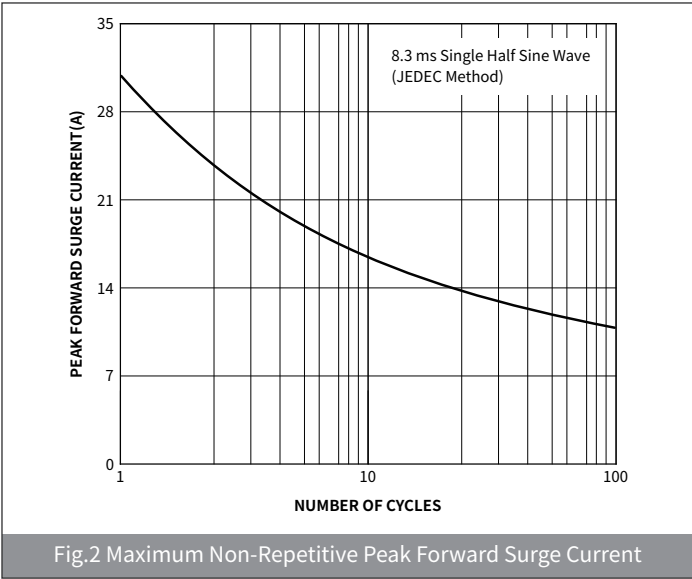
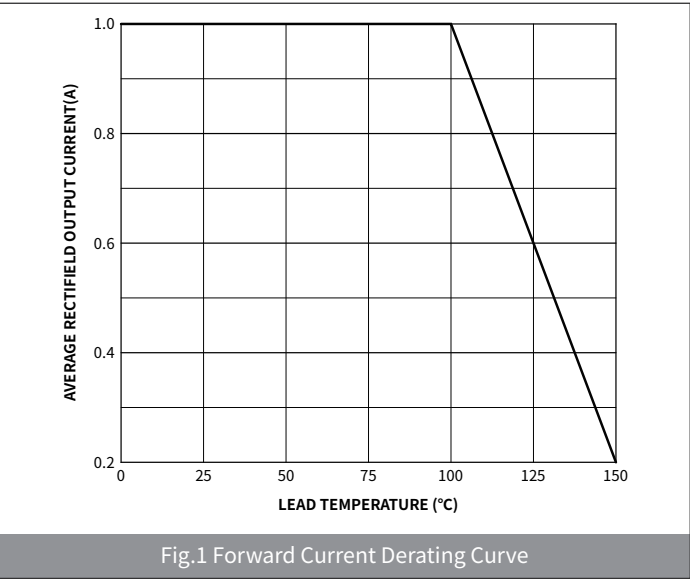
Maximum Ratings (Ta=25°C Unless otherwise specified)

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)

Table with 7 columns: PARAMETER, TEST CONDITIONS, SYMBOL, UNIT, DSL14, DSL16, DSL110. It lists electrical characteristics such as Maximum instantaneous forward voltage, Maximum DC reverse current at rated DC blocking voltage, and their test conditions and values for different part numbers.

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

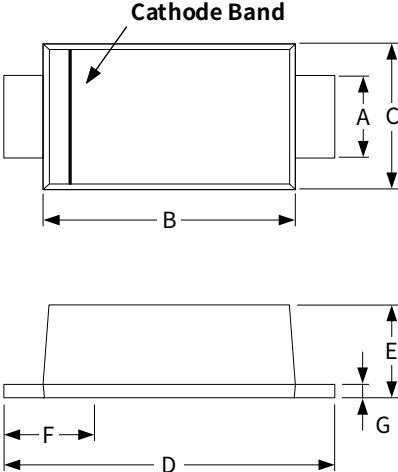


● Ordering Information

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	-

