

## 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

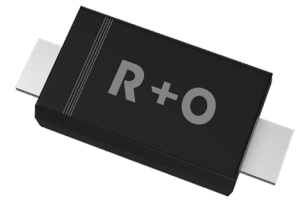
### ● Applications

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

### ● Mechanical Data

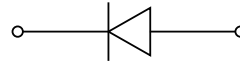
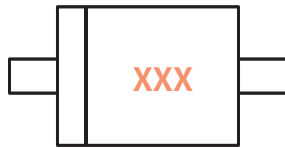
- Case: SOD-123FL  
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

SOD-123FL



### ● Function Diagram

Marking:  
DSL14:L14  
DSL16:L16  
DSL110:L110



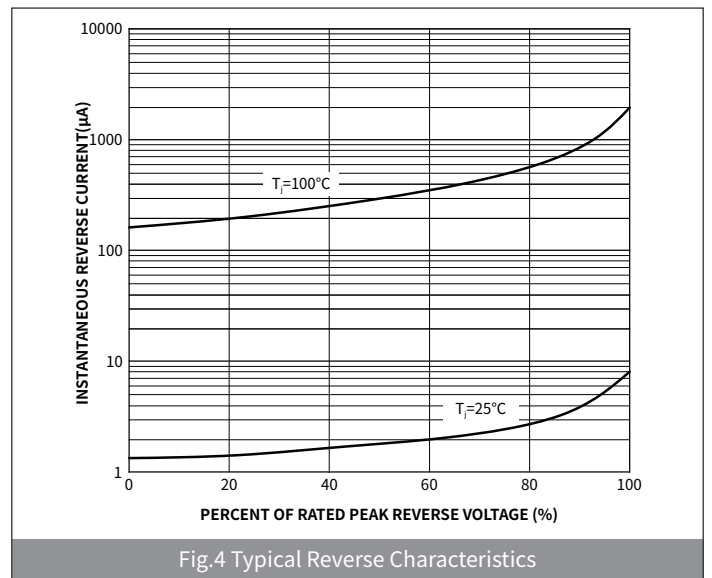
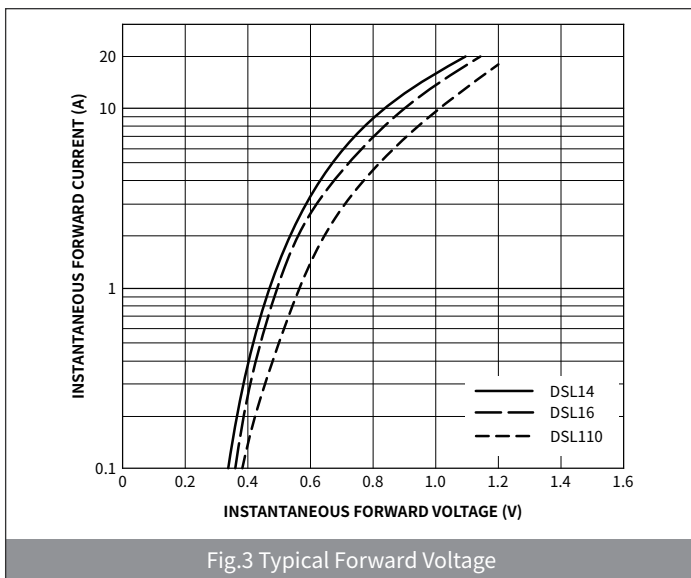
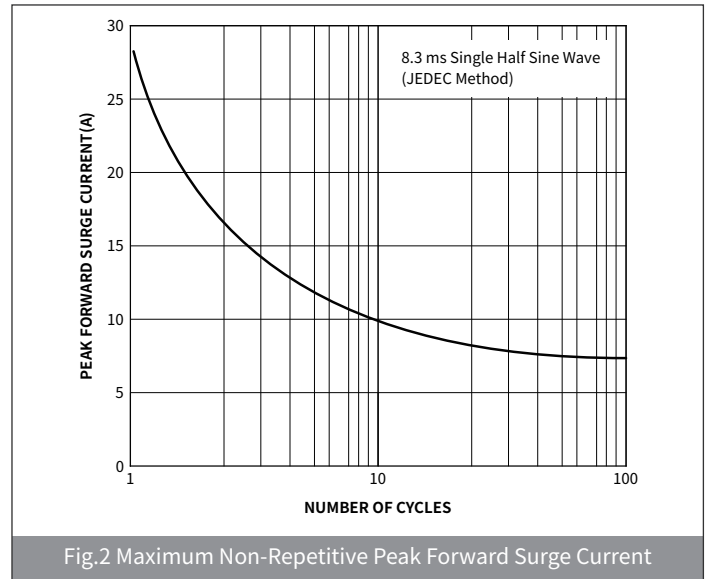
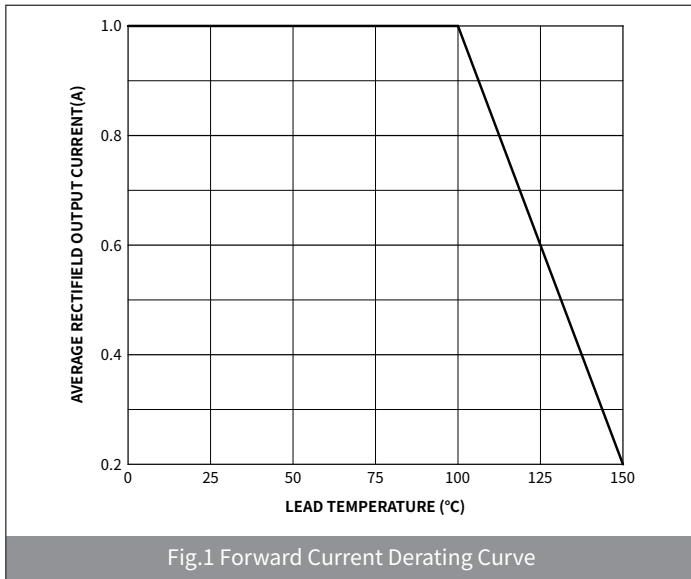
### ● Maximum Ratings (Ta=25°C Unless otherwise specified)

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

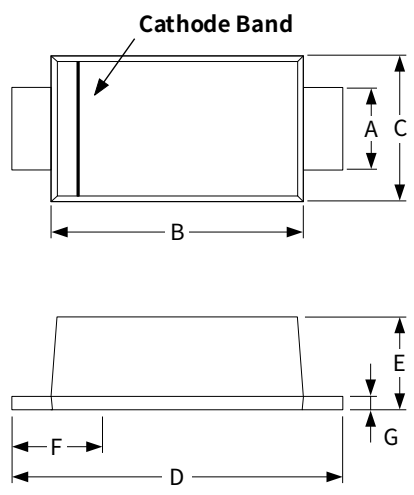
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## ● 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"

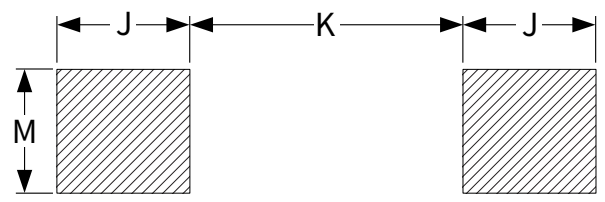
## ● Package Outline Dimensions (SOD -123FL)

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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