

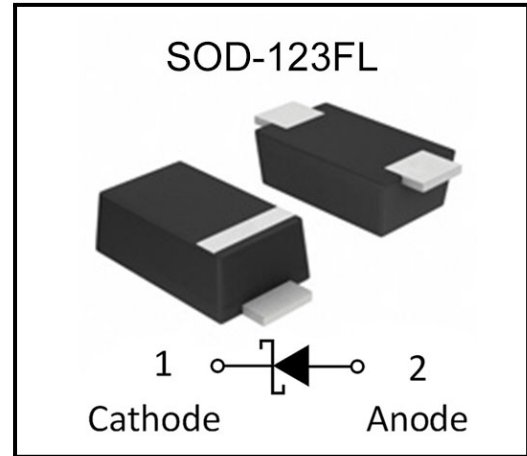
DSS32-DSS320

Schottky Barrier Diode

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

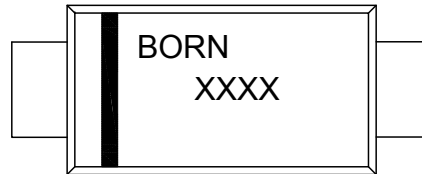
Package



Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-123FL Plastic Package

Marking



Ordering information

Part Number	DSS32	DSS33	DSS34	DSS35	DSS36	DSS37	DSS38	DSS39	DSS310	DSS315	DSS320
Marking	S32	S33	S34	S35	S36	S37	S38	S39	K310	S315	S320
Base qty	3K	3K	3K	3K	3K	3K	3K	3K	3K	3K	3K



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Schottky Barrier Diode

Maximum Ratings and Electrical Characteristics@T_A=25°C unless otherwise noted

Symbol	Parameter	DSS 32	DSS 33	DSS 34	DSS 35	DSS 36	DSS 37	DSS 38	DSS 39	DSS 310	DSS 315	DSS 320	Units
V _{RRM}	Max.Recurrent Peak Reverse Voltage	20	30	40	50	60	70	80	90	100	150	200	V
V _{RMS}	Maximum RMS Voltage	14	21	28	35	42	49	56	63	70	105	140	V
V _{DC}	Maximum DC Blocking Voltage	20	30	40	50	60	70	80	90	100	150	200	V
I _{F(AV)}	Maximum average forward Rectified Current	3.0											A
I _{FSM}	Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	65											A
V _F	Maximum Instantaneous Forward Voltage at 3.0A	0.55			0.70		0.85			0.95			V
I _R	Max. DC reverse current@ T _A =25°C rated DC blocking voltage T _A =100°C	0.5					0.1					mA	
		10					5						
C _j	Typ. Junction Capacitance measured @1MHz and Applied on 4.0V D.C	165											pF
T _J	Operating Junction Temperature Range	-55 to +125					-55 to +150					°C	
T _{STG}	Storage Temperature Range	-55 to +150											°C
R _{θJA}	Thermal Resistance ⁽¹⁾	70											°C/W
R _{θJL}		25											

Note:(1)Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas.



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Typical Performance Characteristics($T_J = 25^\circ\text{C}$, unless otherwise noted)

Figure 1: I_O - T_L Curve

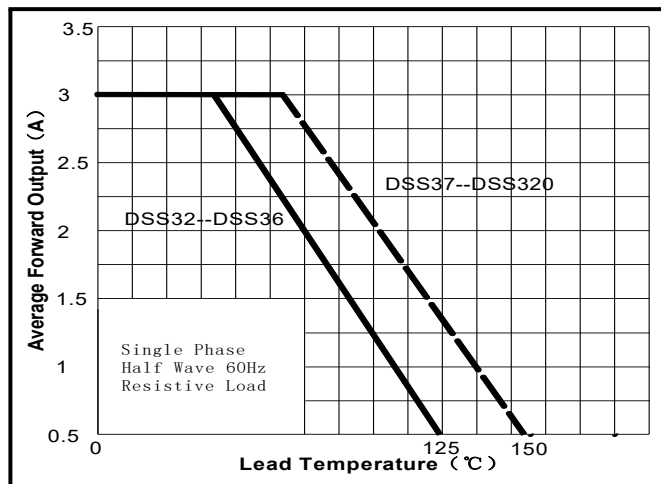


Figure 2: Surge Forward Current Capability

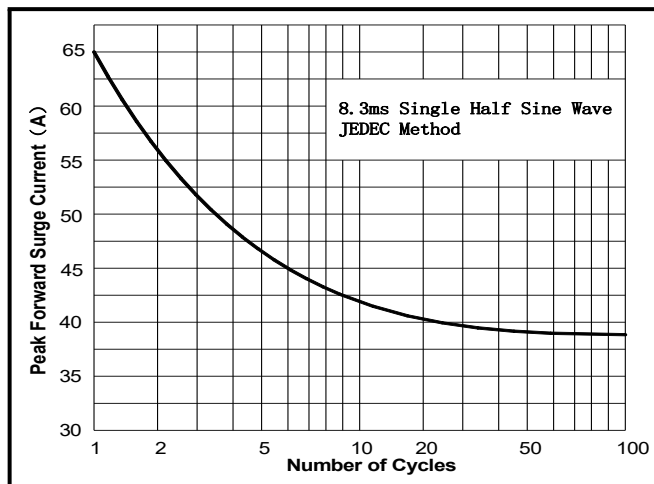


Figure 3: Forward Voltage

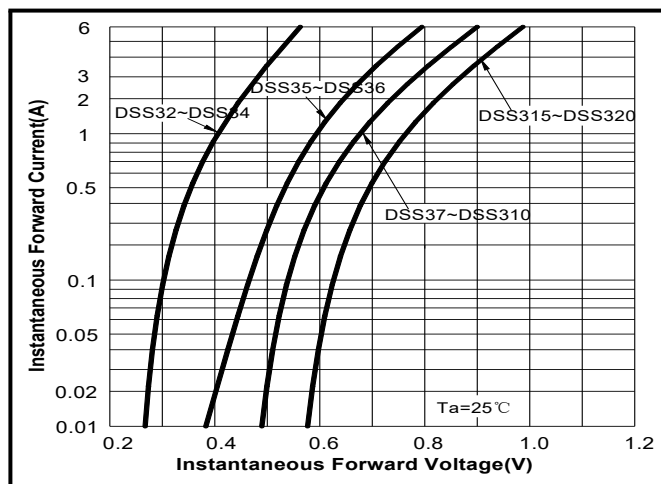
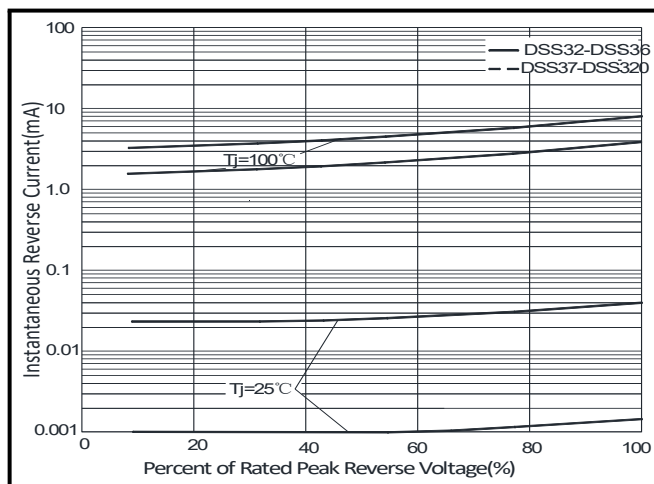


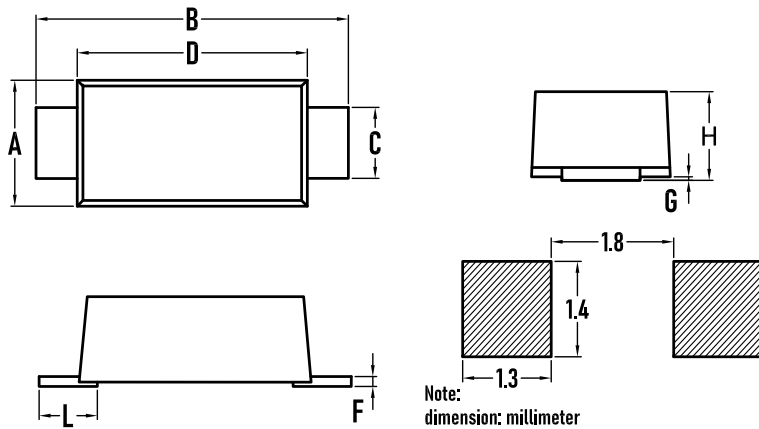
Figure 4: Typical Reverse Characteristics



DSS32-DSS320

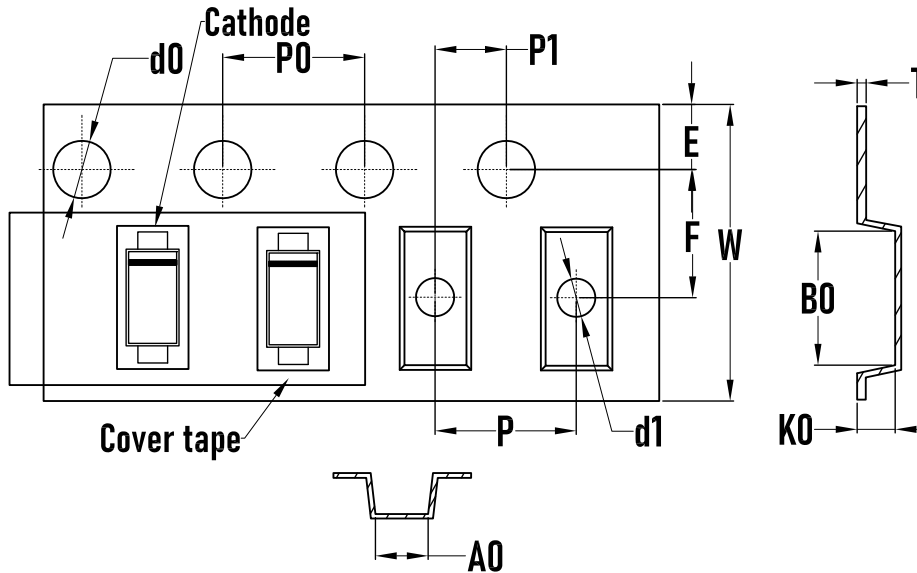
Schottky Barrier Diode

Package Mechanical Data - SOD-123FL



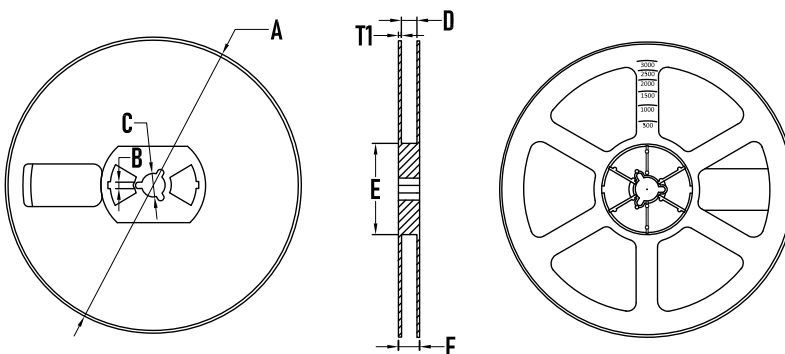
SYMBOL	MILLIMETER		
	MIN.	Typ.	MAX.
A	1.50	1.75	2.00
B	3.40	3.65	3.90
C	0.70	0.95	1.20
D	2.50	2.70	2.90
F	0.05	0.15	0.26
G	0.00	—	0.10
H	0.95	1.15	1.35
L	0.35	0.63	0.90

Packaging Tape - SOD-123FL



SYMBOL	MILLIMETER
A0	1.81±0.1
B0	3.71 ±0.1
d0	1.55±0.1
d1	1.0±0.1
E	1.75±0.1
F	3.50±0.1
K0	1.6 MAX
P	4.00±0.1
P0	4.00±0.1
P1	2.00±0.1
W	8.00±0.2
T	0.25±0.05

Packaging Reel



SYMBOL	MILLIMETER
A	177.8±0.2
B	2.7±0.2
C	13.5±0.2
D	9.6±0.3
E	54.5±0.2
F	12.3±0.3
T1	1.0±0.2
Quantity	3000PCS

