

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 1.0 Ampere

Features

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 seconds,0.375"(9.5mm) lead length,
 5lbs.(2.3kg)tension

Mechanical Data

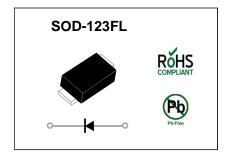
- Case:SOD-123FL molded plastic body
- Terminals: solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams

Specification

Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.



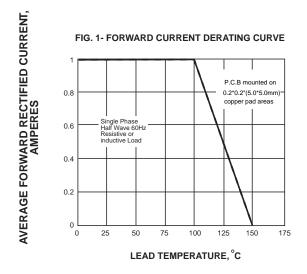
	SYMBOLS	DSS115 D115	DSS120 D120	UNITS
Maximum repetitive peak reverse voltage	Vrrm	150	200	V
Maximum RMS voltage	VRMS	105	140	V
Maximum DC blocking voltage	Vpc	150	200	V
Maximum average forward rectified current	l(AV)	1.0		А
Peak forward surge current				
8.3ms single half sine-wave superimposed on	IFSM	30	30.0	
rated load				
Maximum instantaneous forward voltage at 1.0A	VF	0.85	0.95	V
Maximum DC reverse current Ta=25°C		0.1		mA
at rated DC blocking voltage Ta=100℃	IR -	2.0		
Typical junction capacitance (NOTE 1)	Cı	80		pF
Typical thermal resistance (NOTE 2)	RθJA	95		°C/W
Operating junction temperature range	TJ	-55 to +150		°C
Storage temperature range	Тѕтс	-55 to +150		°C

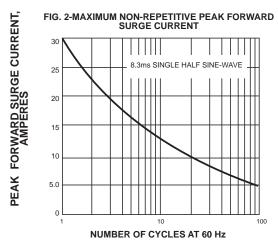
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.PCB mounted on 0.2*0.2" (5.0*5.0mm) coppeer pad area.

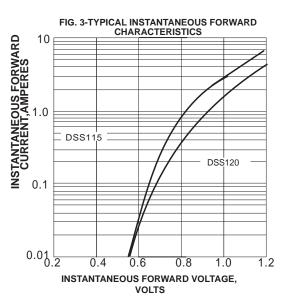
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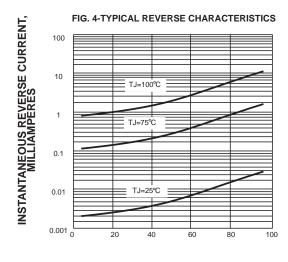


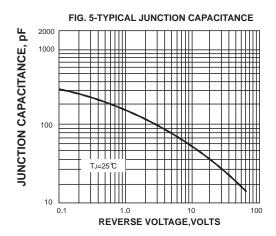
Ratings and characteristic curves DSS115 thru DSS120











PERCENT OF PEAK REVERSE VOLTAGE,%

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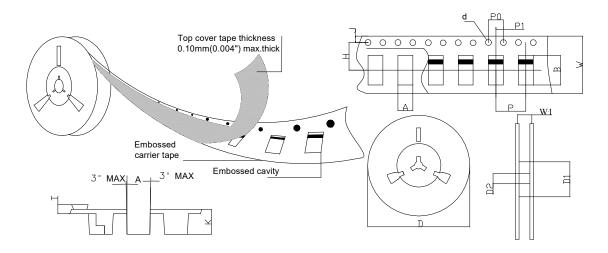
Marking and packging illustration

1, Marking



SYMBOL	Explanation	
A	Product Name	

2. Packaging



SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE	
ITEM	SYM BOL	SOD-123FL	ITEM	SYM BOL	SOD-123FL	
Carrier width	A	2.1(0.083)Max	Carrier depth	K	1.60(0.063)Typ	
Carrier length	В	4.0(0.157)Max	Punch hole pitch	P	4.00(0.157)Typ	
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ	
Reel outer diameter	D	177.8(7)Typ	Embossment center	P1	2.00(0.079)Typ	
Reel inner diameter	D1	50.0(1.969)Min	Overall tape thickness	T	0.25(0.098)Typ	
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	8.15(0.321)Typ	
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	10.5(0.413)Min	
Punch hole position	Н	3.50(0.138)Typ				

3. Ordering Information

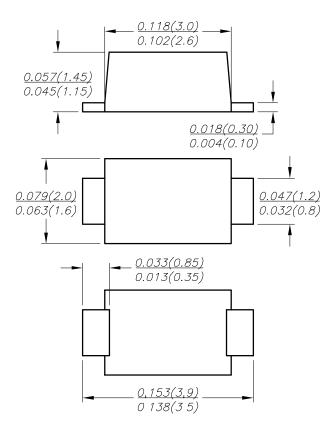
Part Number	Compliance	Case	Packaging
SSXX	Standard	SOD-123FL	3000/Tape & Reel

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Dimension

SOD-123FL



Dimensions in inches and (millimeters)

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