

Surface Mount Standard Rectifiers

Major Ratings and Characteristics

1.0 A
50 V to 1000 V
25 A
5 μΑ
1.1 V
150 °C

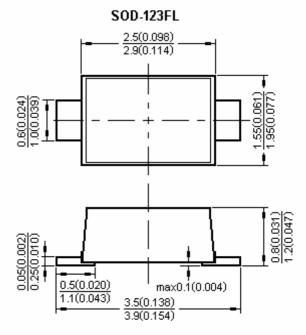
Pb

Features

- · Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- Case: JEDEC SOD-123FL molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



Dimensions in millimeters and (inches)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

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	Symbol	DSR1A	DSR1B	DSR1D	DSR1G	DSR1J	DSR1K	DSR1M	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum average forward rectified current	I _{F(AV)}	1						Α		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	25						Α		
Maximum instantaneous forwad voltage at 1.0A	V_{F}	1.1						V		
Maximum DC reverse current $T_A = 25 \degree C$ at Rated DC blocking voltage $T_A = 125 \degree C$	I _R	5.0 50						μА		
Typical junction capacitance at 4.0 V ,1MHz	CJ	15						рF		
Operating junction and storage temperature range	T _J , T _{STO}	–55 to +150						$^{\circ}$		



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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

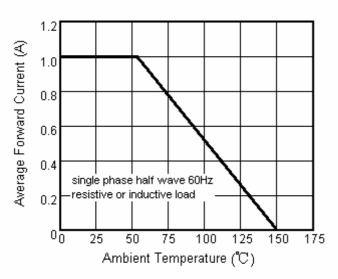


Fig.3 Typical Instantaneous Forward Characteristics

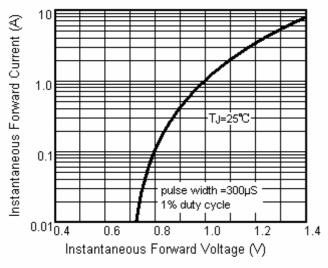


Fig.5 Typical Junction Capacitance

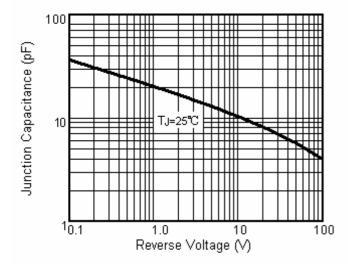


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

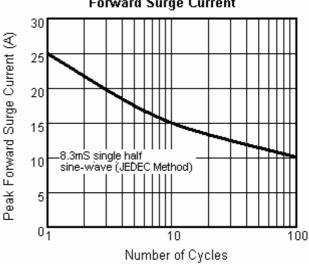


Fig.4 Typical Reverse Characteristics

