



DSR0.3A-DSR0.3M

Surface Mount Standard Rectifiers

Major Ratings and Characteristics

I _{F(AV)}	0.3 A
V _{RRM}	50 V to 1000 V
I _{FSM}	15 A
I _R	5 µA
V _F	1.1 V
T _j max.	150 °C

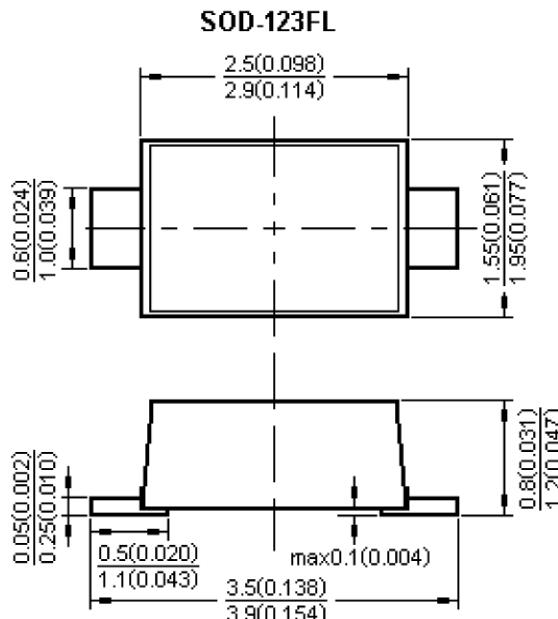


Features

- 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 Data

- **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
- **Weight:** 0.017gram



Dimensions in millimeters and (inches)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

DSR-	Symbol	0.3A	0.3B	0.3D	0.3G	0.3J	0.3K	0.3M	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)}				0.3				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}				15				A
Maximum instantaneous forward voltage at 0.3A	V _F				1.1				V
Maximum DC reverse current T _A = 25 °C at Rated DC blocking voltage T _A = 100 °C	I _R				5.0				µ A
Thermal resistance from junction to ambient (Note1)	R _{θJA}				220				°C/W
Operating junction and storage temperature range	T _J , T _{STG}				-55 to +150				°C

Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas (≈35 µm thick)



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

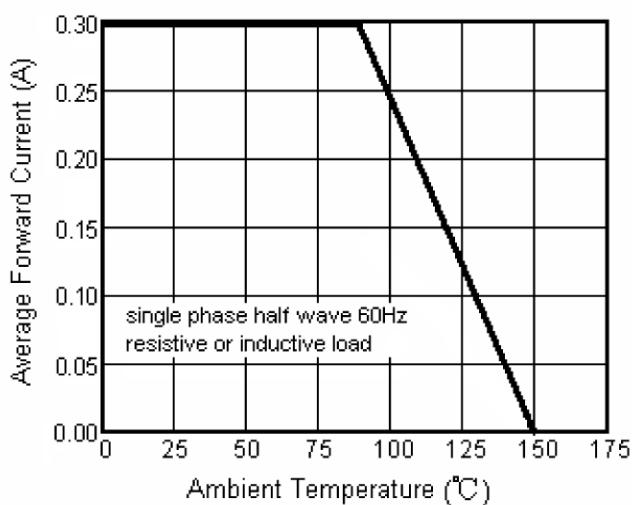


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

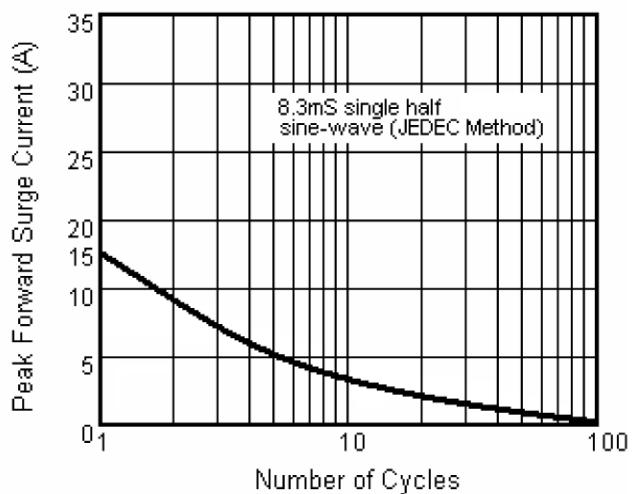


Fig.3 Typical Instantaneous Forward Characteristics

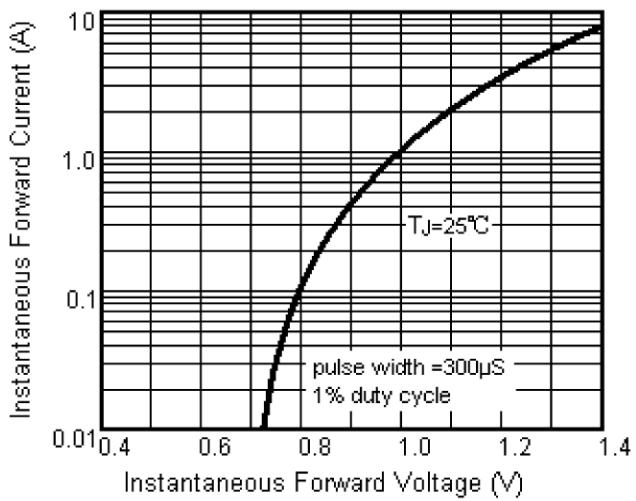


Fig.4 Typical Reverse Characteristics

