DFR1A~DFR1M

Surface Mount Fast Recovery Rectifiers

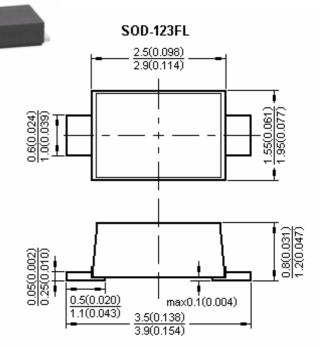
Features

- 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

Downlo

- 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)

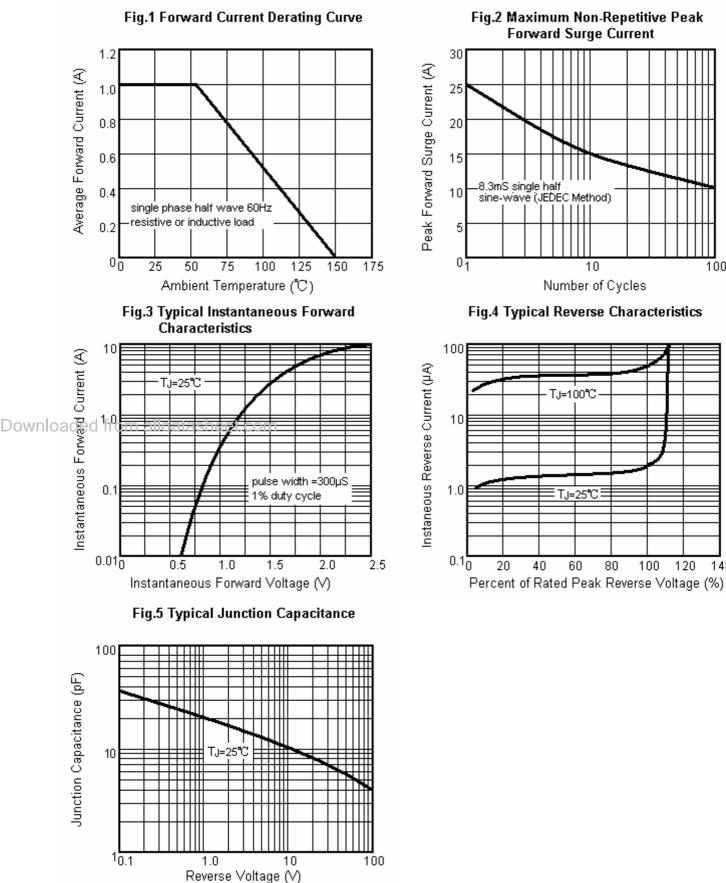
Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)									
	Symbol	DFR1A	DFR1B	DFR1D	DFR1G	DFR1J	DFR1K	DFR1M	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						А	
Maximum instantaneous forwad voltage at 1.0A	V _F	1.3						V	
Maximum DC reverse current $T_A = 25 \degree$ at Rated DC blocking voltage $T_A = 100\degree$	I _R	5.0 50							μA
Maximum reverse recovery time at $I_F = 0.5 \text{ A}$, $I_R = 1.0 \text{ A}$, $I_{rr} = 0.25 \text{ A}$	t _{rr}		150 250 500			00	nS		
Typical junction capacitance at 4.0 V ,1MHz	CJ	15						рF	
Operating junction and storage temperature range	T _J , T _{STO}	–55 to +150						°C	



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Characteristic Curves (T_A=25 °C unless otherwise noted)



100

120

140