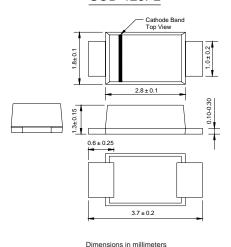


# DFR1A THRU DFR1M

#### SUFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0Ampere

#### SOD-123FL



## FEATURES

- Glass passivated device
- ◆ Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

**Case**: JEDEC SOD-123FL molded plastic body over passivated chip **Terminals**: Plated axial leads, solderable per MIL-STD-750.

Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any **Weight**: 0.0007 ounce, 0.02 grams

#### MAXIMUM RATINGS 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%.

MDD Catalog Number	SYMBOLS	DFR1A F1A	DFR1B F1B	DFR1D F1D	DFR1G F1G	DFR1J F1J	DFR1K F1K	DFR1M F1M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at Ta=65°C (NOTE 1)	l(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	Ігѕм	25.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=125°C	lR	5.0 50.0							μА
Maximum reverse recovery time (NOTE 2)	trr	150 250 500					ns		
Typical junction capacitance (NOTE 3)	Сл	15							pF
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

Note: 1. Averaged over any 20ms period.

2.Measured with IF=0.5A, IR=1A, Irr=0.25A.

3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

### RATINGS AND CHARACTERISTIC CURVES DFR1A THRU DFR1M

Fig.1 Forward Current Derating Curve

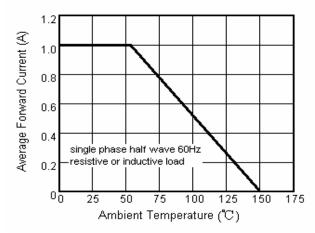


Fig.3 Typical Instantaneous Forward Characteristics

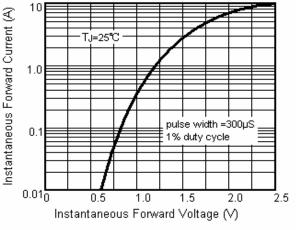


Fig.5 Typical Junction Capacitance

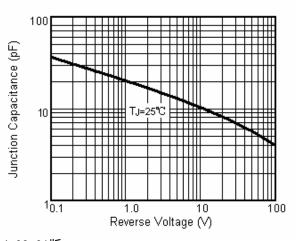


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

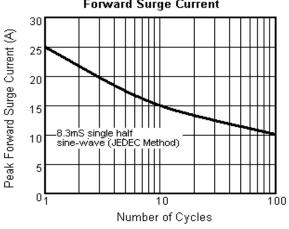
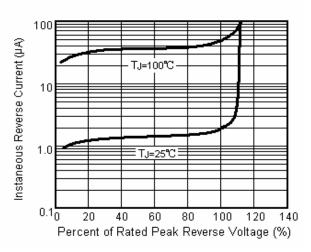


Fig.4 Typical Reverse Characteristics



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