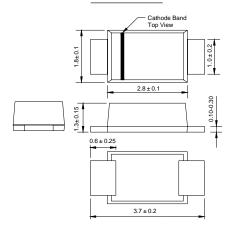


# **DFR0.3A THRU DFR0.3M**

#### SUFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -0.3Ampere





Dimensions in millimeters

#### **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	DFR0.3A F03A	DFR0.3B F03B	DFR0.3D F03D	DFR0.3G F03G	DFR0.3J F03J	DFR0.3K F03K	DFR0.3M F03M	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)	0.3							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	Іғѕм	10.0							Amps
Maximum instantaneous forward voltage at 0.3A	VF	1.3							Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=125°C	lR	5.0 50.0							μΑ
Maximum reverse recovery time (NOTE 2)	trr	150 250 500					00	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=0.3A, IR=1A, Irr=0.25A.

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

# MDD ELECTRONIC

## RATINGS AND CHARACTERISTIC CURVES DFR0.3A THRU DFR0.3M

## Characteristic Curves (T<sub>A</sub>=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

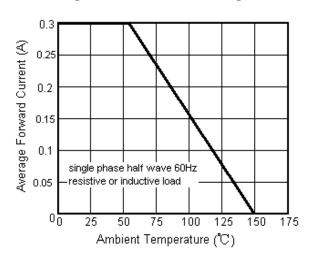


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

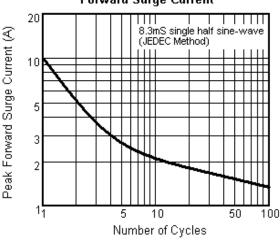


Fig.3 Typical Instantaneous Forward Characteristics

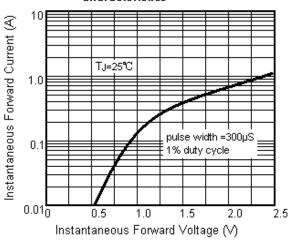


Fig.4 Typical Reverse Characteristics

