

# DFR05A - DFR05M

## SUFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE: 50 - 1000V CURRENT: 0.5A

#### **Features**

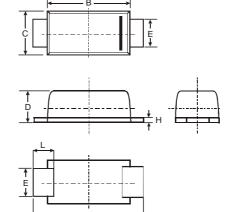
- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:
- 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **Mechanical Data**

- Case: JEDEC SOD-123FL molded plastic body over passivated junction
- 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







SOD-123FL								
Dim	Min	Тур						
Α	3.50	3.90	3.70					
В	2.60	3.00	2.80					
O	1.63	1.93	1.78					
ם	0.93	1.00	0.98					
Е	0.85	1.25	1.00					
H	0.15	0.25	0.20					
L	0.55	0.75	0.65					
All Dimensions in mm								

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		DFR05A	DFR05B	DFR05D	DFR05G	DFR05J	DFR05K	DFR05M	Unit
		05A	05B	05D	05G	05J	05K	05M	
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)	0.5							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	IFSM	15.0							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=100 °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
Typical thermal resistance (NOTE 4)	RθJA	180							K/W
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.
- 4. Thermal resistance junction to ambient, 6.0 mm2 coppeer pads to each terminal.



#### RATINGS AND CHARACTERISTIC CURVES DFR05A THRU DFR05M

Fig.1 Forward Current Derating Curve

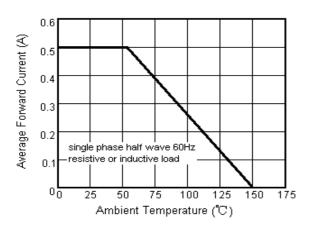


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

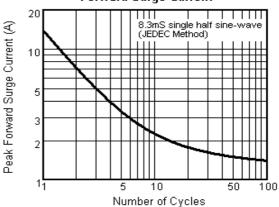


Fig.3 Typical Instantaneous Forward Characteristics

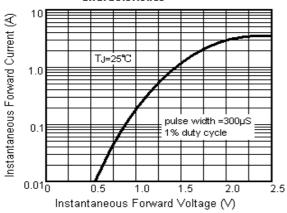


Fig.4 Typical Reverse Characteristics

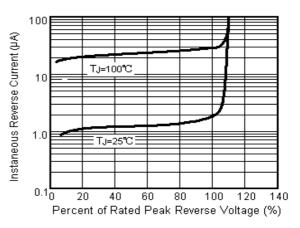
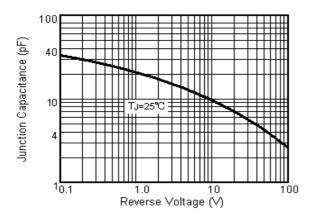


Fig.5 Typical Junction Capacitance



单击下面可查看定价,库存,交付和生命周期等信息

>>SUNMATE(森美特)