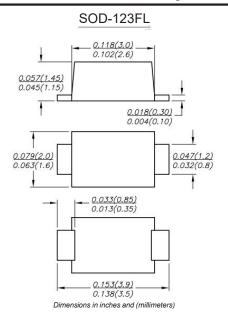


FFM101 THRU FFM107

SURFACE MOUNT FAST RECOVERY RECTIFIER

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



FEATURES

- Glass passivated device
- Ideal for surface mouted applications
- ▲ Low reverse leakage
- Metallurgically bonded construction
- ➡ High temperature soldering guaranteed: 260℃/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: 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%.

	SYMBOLS	FFM101 F1	FFM102 F2	FFM103 F3	FFM104 F4	FFM105 F5	FFM106 F6	FFM107 F7	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	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 at TL=100°C (NOTE 1)	l(AV)				1.0		h	to.	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	Іғѕм				25.0				А
Maximum instantaneous forward voltage at 1.0A	VF				1.3				V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lR				5.0 50.0			,	μА
Maximum reverse recovery time (NOTE 2)	trr		1:	50		250		500	ns
Typical junction capacitance (NOTE 3)	Cı	15						pF	
Typical thermal resistance (NOTE 4)	Reja	95							°C/W
Operating junction and storage temperature range	$T_{J,}T_{STG}$	-55 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.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES FFM101 THRU FFM107

FIG. 1- FORWARD CURRENT DERATING CURVE

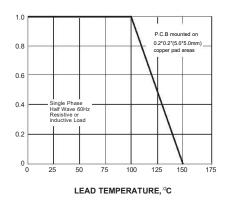
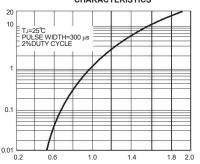


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, **VOLTS**

FIG. 5-TYPICAL JUNCTION CAPACITANCE

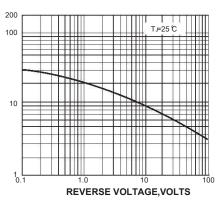


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

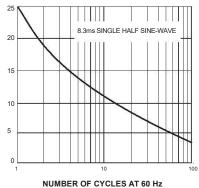
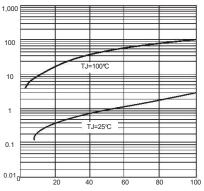


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%