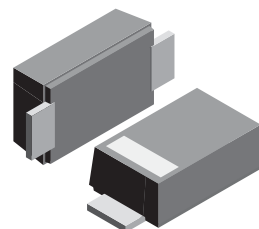


VOLTAGE RANGE: 100 - 800V
CURRENT: 1.0A

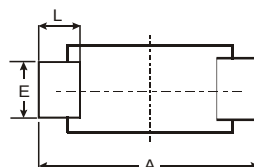
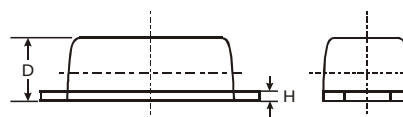
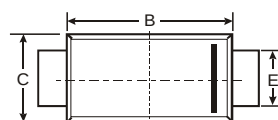
Features

- Glass passivated device
- Ideal for surface mounted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:



Mechanical Data

- Case: 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	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	US1001FL	US1002FL	US1004FL	US1006FL	US1008FL	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	100	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	100	200	400	600	800	V
Maximum average forward rectified current at T _A =65°C (NOTE 1)	I _(AV)	1.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T _L =25°C	I _{FSM}	25.0					A
Maximum instantaneous forward voltage at 1.0A	V _F	1.0	1.4	1.7			V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	5.0 100.0					μA
Maximum reverse recovery time (NOTE 2)	t _{rr}	50			75		ns
Typical thermal resistance (NOTE 4)	R _{θJA}	180					K/W
Operating junction and storage temperature range	T _J , T _{STG}	-50 to +150					°C

Note: 1. Averaged over any 20ms period.
2. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.
3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
4. Thermal resistance junction to ambient, 6.0 mm² copper pads to each terminal.

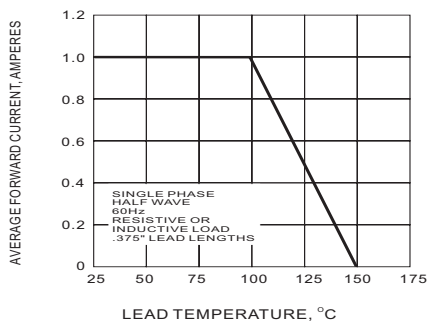


Fig.1 FORWARD CURRENT DERATING CURVE

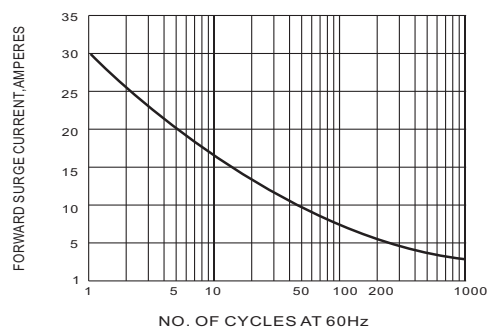


Fig.2 PEAK FORWARD SURGE CURRENT

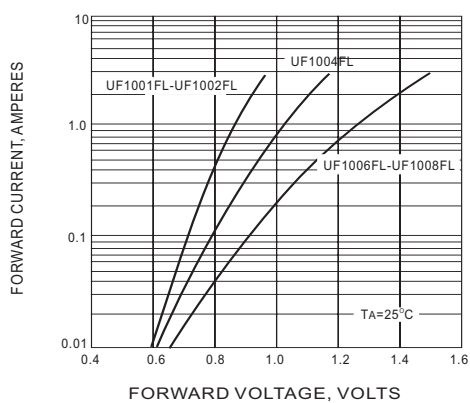


Fig.3 FORWARD CHARACTERISTICS

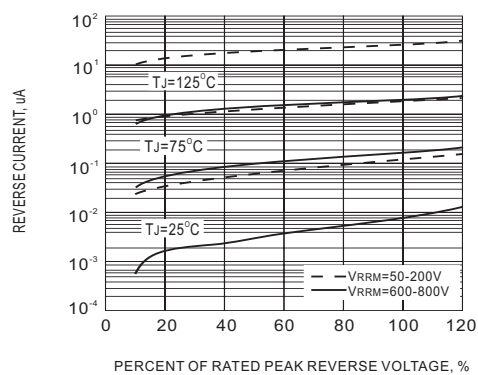


Fig.4 TYPICAL REVERSE CHARACTERISTICS

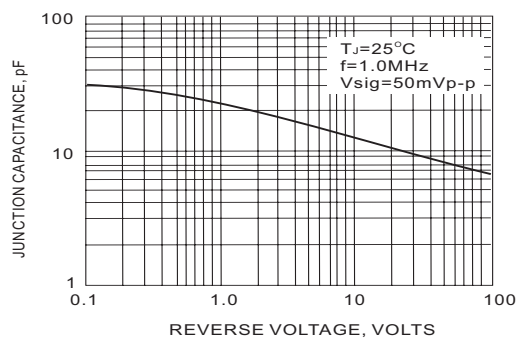


Fig.5 TYPICAL JUNCTION CAPACITANCE

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)