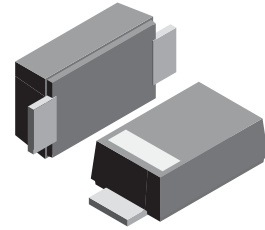


**VOLTAGE RANGE: 100-200V**  
**CURRENT: 1.0 A**

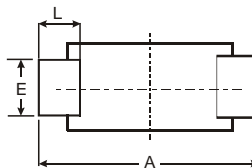
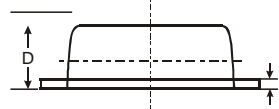
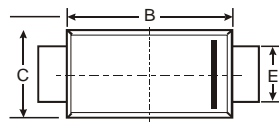


### Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: SOD-123FL  
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	3.50	3.80	3.65
B	2.60	2.90	2.75
C	1.70	1.90	1.80
D	0.09	1.10	1.00
E	0.08	1.10	0.095
H	0.12	0.20	0.16
L	0.07	0.09	0.08
All Dimensions in mm			

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

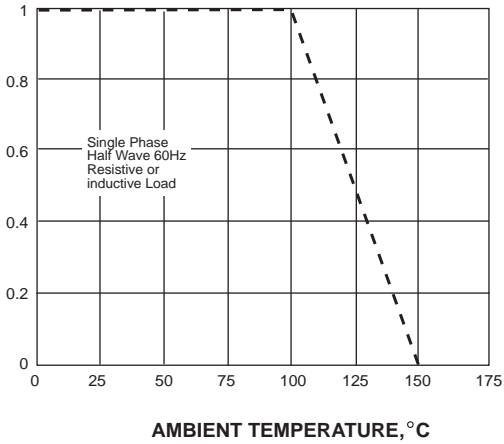
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	DFLS1100	DFLS1200	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	70	140	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	100	200	Volts
Maximum average forward rectified current	I <sub>(AV)</sub>	1.0		Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	25.0		Amps
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	0.85	0.95	Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	0.5 5.0	0.2 2.0	mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	80		pF
Operating junction temperature range	T <sub>J</sub>	-65 to +150		°C
Storage temperature range	T <sub>STG</sub>	-65 to +150		°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

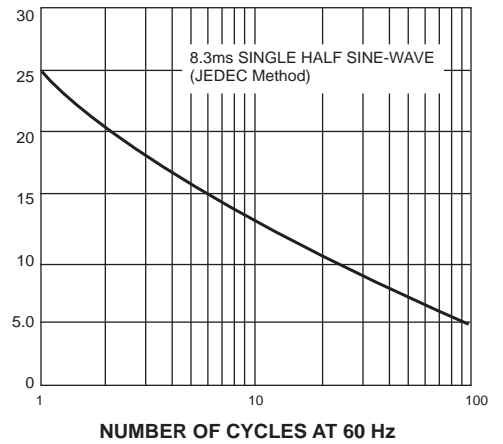
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

**FIG. 1- FORWARD CURRENT DERATING CURVE**



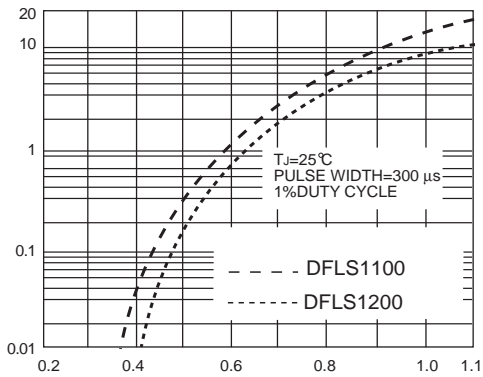
PEAK FORWARD SURGE CURRENT, AMPERES

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



INSTANTANEOUS FORWARD CURRENT, AMPERES

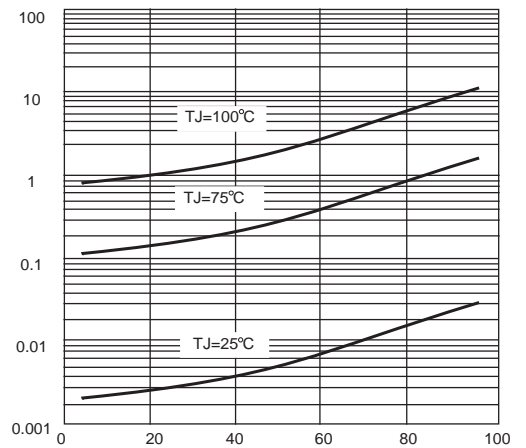
**FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

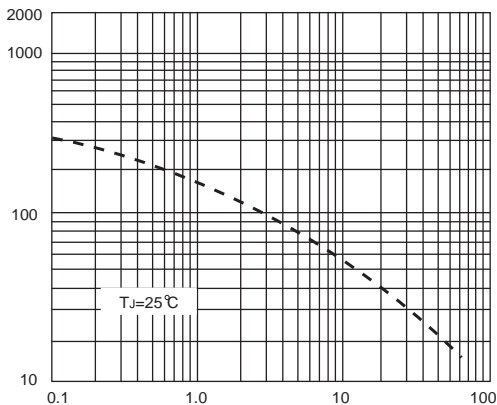
**FIG. 4-TYPICAL REVERSE CHARACTERISTICS**



PERCENT OF PEAK REVERSE VOLTAGE, %

JUNCTION CAPACITANCE, pF

**FIG. 5-TYPICAL JUNCTION CAPACITANCE**



REVERSE VOLTAGE, VOLTS