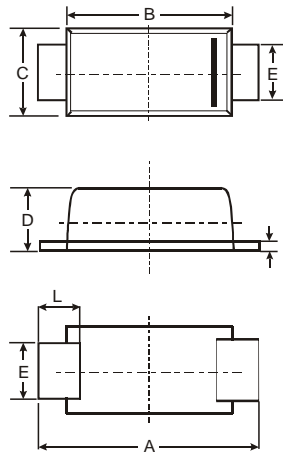
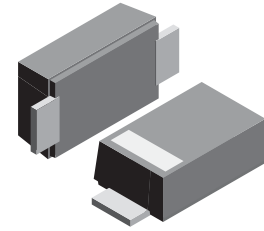


VOLTAGE RANGE: 20 - 100V
CURRENT: 2.0 A

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



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			

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



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%.

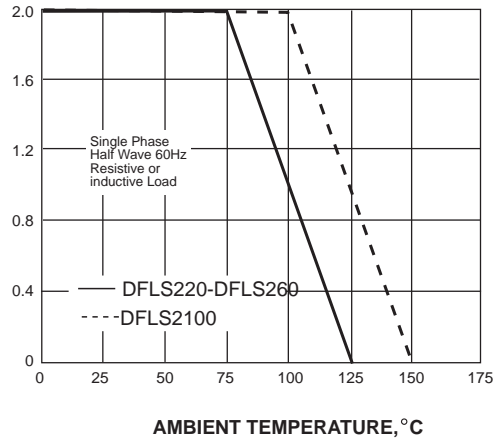
Characteristic	Symbol	DFLS220	DFLS230	DFLS240	DFLS260	DFLS2100	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	60	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	42	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	60	100	Volts
Maximum average forward rectified current	I _(AV)	2.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40.0					Amps
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85	Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5					mA
<small>T_A=25°C</small> <small>T_A=100°C</small>		10.0			5.0		
Typical junction capacitance (NOTE 1)	C _J	220		80			pF
Operating junction temperature range	T _J	-50 to +125			-50 to +150		°C
Storage temperature range	T _{STG}	-50 to +150					°C

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



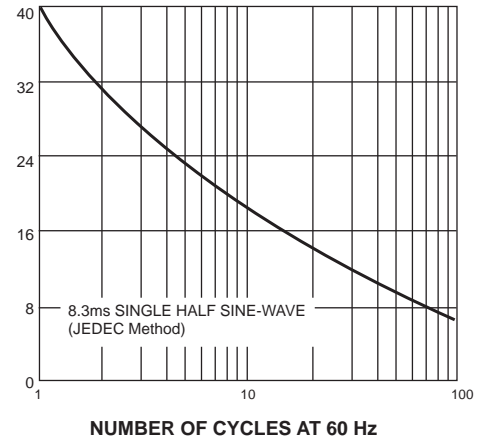
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



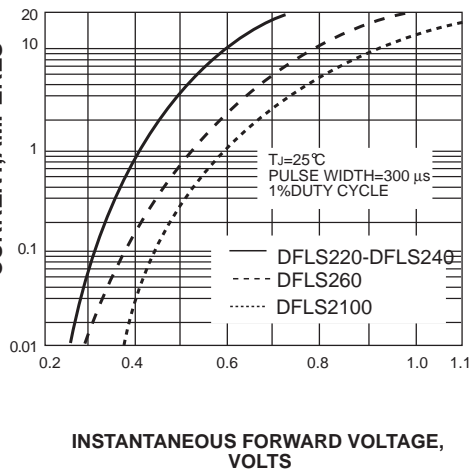
PEAK FORWARD SURGE CURRENT, AMPERES

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



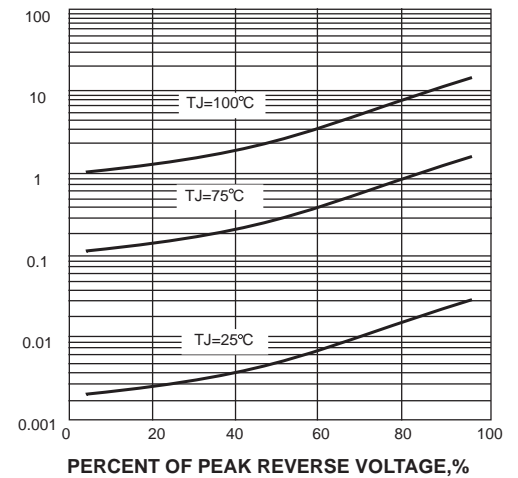
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE

