

VOLTAGE RANGE: 20 - 100V

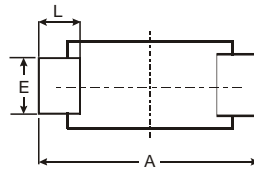
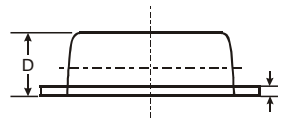
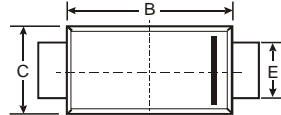
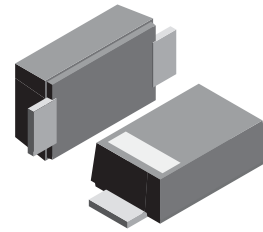
CURRENT: 3.0 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- 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	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%.

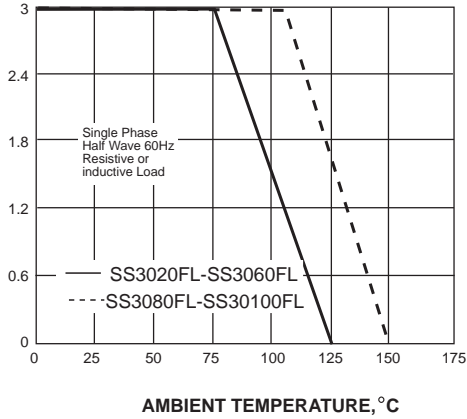
Characteristic	Symbol	SS3020FL	SS3030FL	SS3040FL	SS3060FL	SS3080FL	SS3090FL	SS30100FL	Unit	
	Marking	32	33	34	36	38	39	310		
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	60	80	90	100	Volts	
Maximum RMS voltage	V _{RMS}	14	21	28	42	56	63	70	Volts	
Maximum DC blocking voltage	V _{DC}	20	30	40	60	80	90	100	Volts	
Maximum average forward rectified current	I _(AV)	3.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80.0							Amps	
Maximum instantaneous forward voltage at 3.0A	V _F	0.52	0.55	0.70		0.85			Volts	
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5			20.0		10.0		mA	
Operating junction temperature range	T _J	-50 to +125			-50 to +150				°C	
Storage temperature range	T _{STG}	-50 to +150								°C



RATINGS AND CHARACTERISTIC CURVES SS3020FL THRU SS30100FL

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

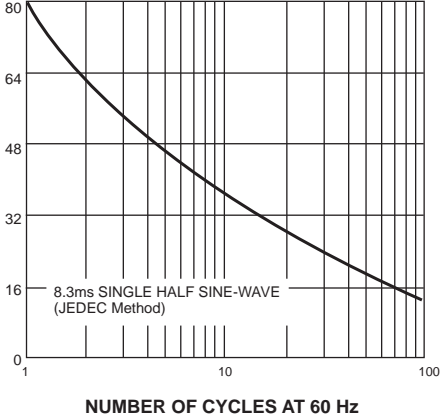
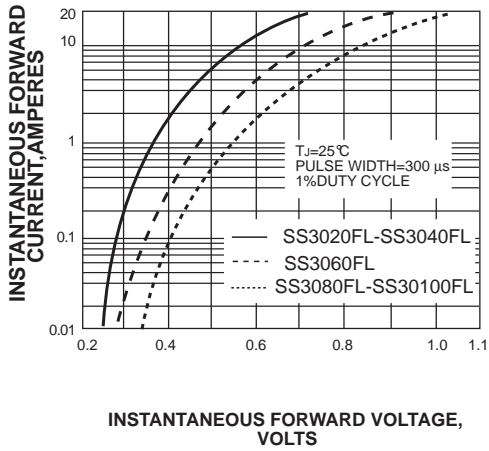


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

