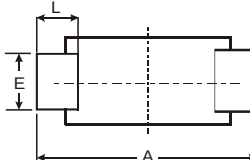
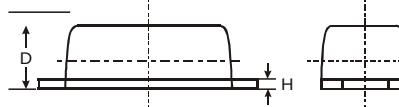
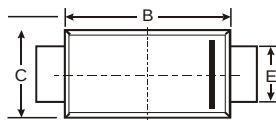
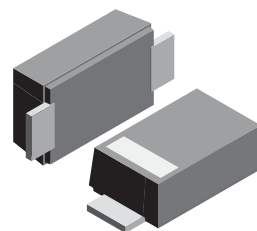


VOLTAGE RANGE: 20 - 100V

CURRENT: 0.5 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



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			

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



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	SS0520FL	SS0530FL	SS0540FL	SS0560FL	SS0580FL	SS05100FL	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	60	80	100	V
Maximum average forward rectified current T _J =90°C	I _(AV)	0.5						A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	20						A
Maximum instantaneous @I _{FM} =0.5A forward voltage	V _F	0.45	0.55		0.70	0.80		V
Repetitive peak reverse current at rated DC blocking voltage	I _R	0.3						mA
Typical junction capacitance	C _J	30						p F
Operating temperature range	T _j	- 55 --- + 125						°C
Storage temperature range	T _{STG}	- 55 --- + 150						°C

NOTE1. Measured at f=1.0MHz, V_R=4.0V

RATINGS AND CHARACTERISTIC CURVES SS0520FL THRU SS05100FL

FIG.1 – FORWARD DERATING CURVE

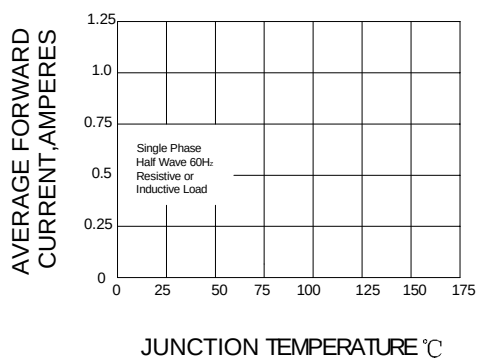


FIG.2– PEAK FORWARD SURGE CURRENT

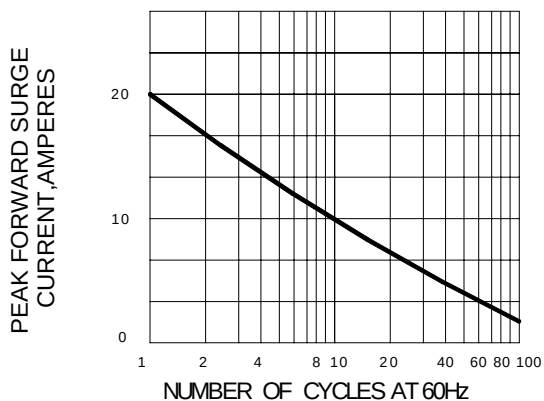


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

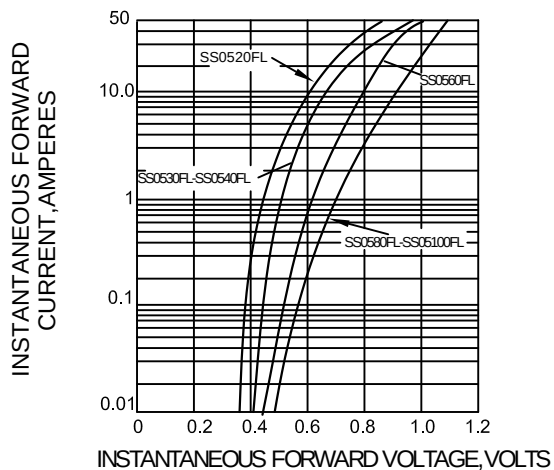


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

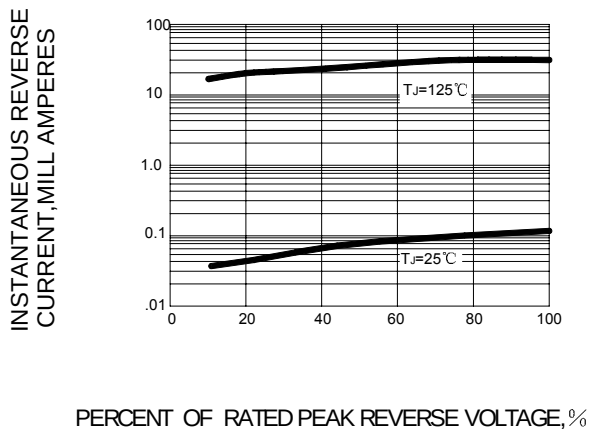


FIG.5-TYPICAL JUNCTION CAPACITANCE

