



# SS22FLH THRU SS220FLH

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

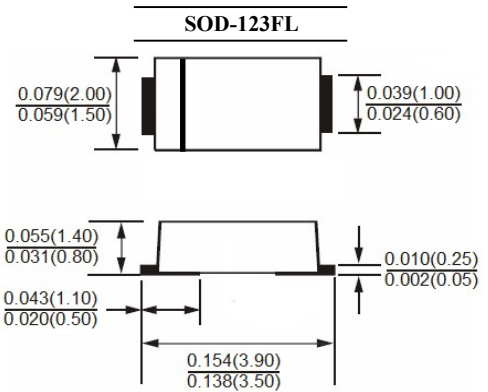
**REVERSE VOLTAGE:** 20 to 200 VOLTS  
**FORWARD CURRENT:** 2.0 AMPERE

### FEATURES

- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "H" indicates Halogen-free parts, ex. SS22FLH

### MECHANICAL DATA

Case : Molded plastic, SOD-123FL  
 Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed  
 Polarity : Color band denotes cathode end



### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

Parameter	Symbols	SS22FLH	SS24FLH	SS26FLH	SS210FLH	SS215FLH	SS220FLH	Units
Marking Code		22	24	26	210	215	220	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	14	28	42	70	105	140	Volts
Maximum DC Blocking Voltage	$V_R$	20	40	60	100	150	200	Volts
Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)	$I_{(AV)}$	2.0						Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	40.0						Amp
Maximum Forward Voltage at 2.0A $T_A=25^\circ\text{C}$	$V_F$	0.55	0.75	0.85	0.95			Volts
Maximum Reverse Current at $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_J=100^\circ\text{C}$	$I_R$	0.5						mAmp
Typical Thermal Resistance from Junction to Lead (Note 1)	$R_{\theta JL}$	30						°C/W
Operating Junction Temperature Range	$T_J$	-55 to +125			-55 to +150			°C
Storage Temperature Range	$T_{stg}$	-55 to +150						

#### NOTES:

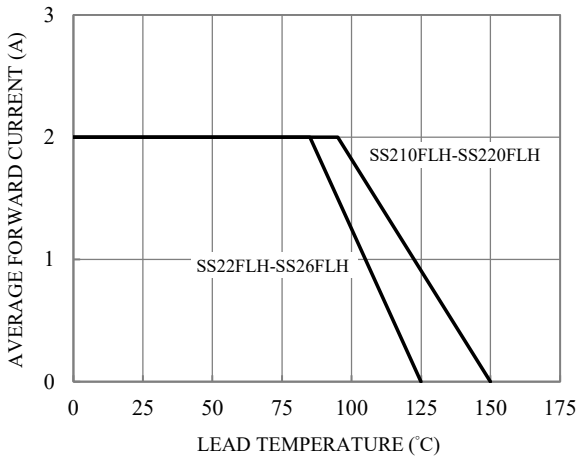
1- Mounted on epoxy glass PCB with 3mmx3mm Cu pads ( $\geq 40 \mu\text{m}$  thick)



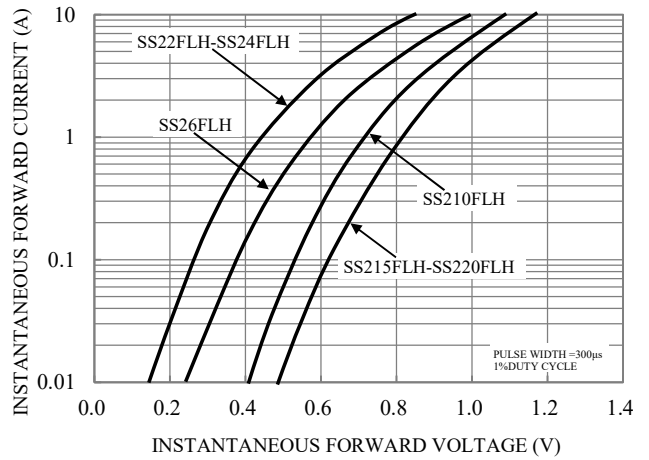
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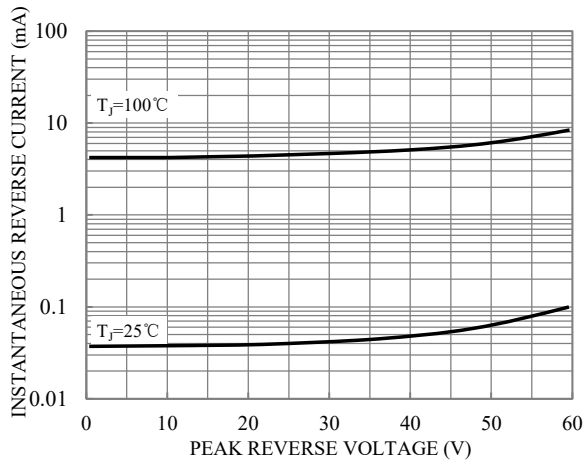
### RATINGS AND CHARACTERISTIC CURVES



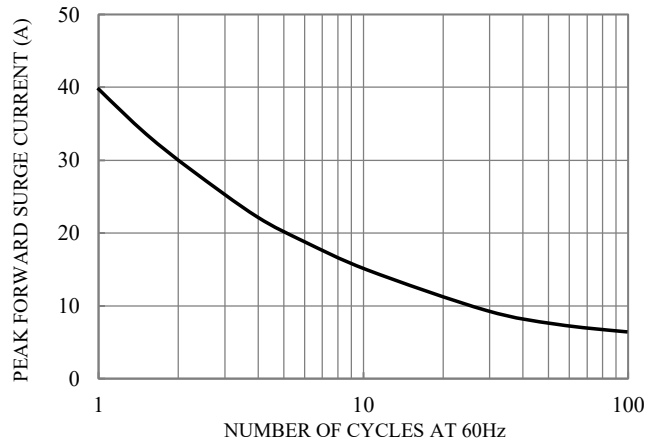
**Fig.1-FORWARD CURRENT DERATING CURVE**



**Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**Fig.3-TYPICAL REVERSE CHARACTERISTICS**



**Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT**