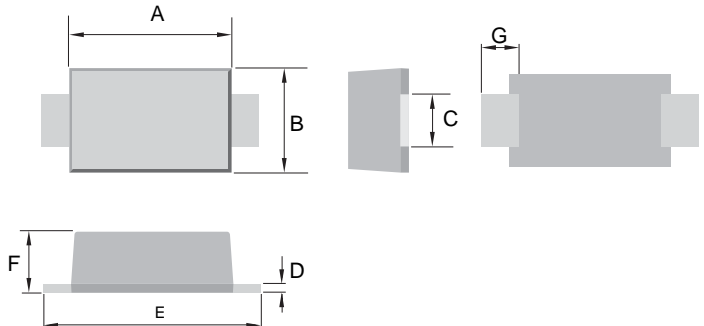


Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 8 0A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMAF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.037 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version**

SMAF		
Dim	Min	Max
A	3.20	3.60
B	2.40	2.80
C	1.38	1.43
D	0.10	0.20
E	4.40	4.80
F	0.90	1.10
G	0.90	-
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SSL32F	SSL33F	SSL34F	SSL35F	SSL36F	SSL38F	SSL310F	SSL315F	SSL320F	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}										V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	150	200		
DC Blocking Voltage	V_R											
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	70	105	140	V	
Average Rectified Output Current @ $T_L = 75^\circ\text{C}$	I_O	3.0									A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80									A	
Forward Voltage @ $I_F = 3.0\text{A}$	V_{FM}	0.45			0.50		0.60		0.85		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}						0.5					mA
							20					
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$						28					$^\circ\text{C/W}$
							88					
Typical Junction Capacitance	C_j	110					30		110		pF	
Operating Temperature Range	T_j	-65 to +125									$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150									$^\circ\text{C}$	

Note: 1. Mounted on P.C. Board with 5.0mm² copper pad area.

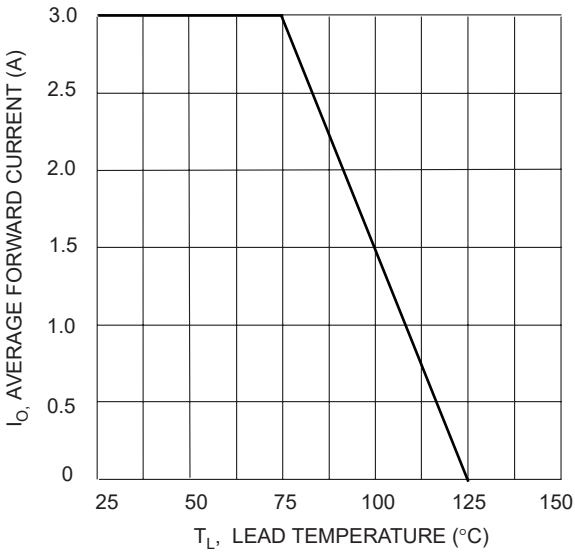


Fig. 1 Forward Current Derating Curve

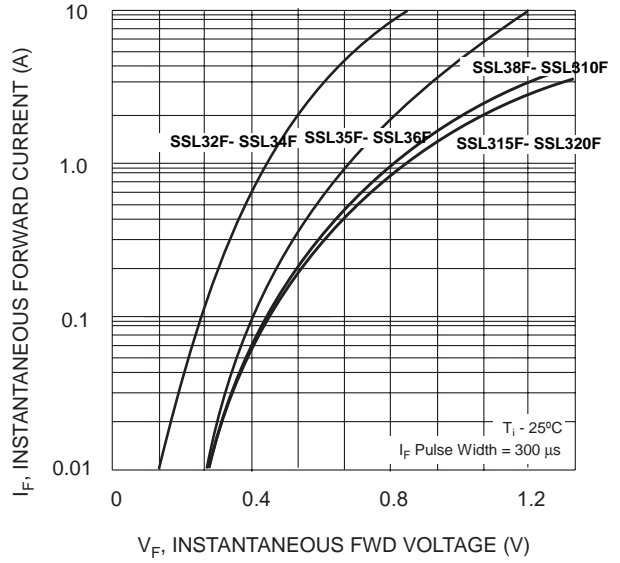


Fig. 2 Typ. Forward Characteristics

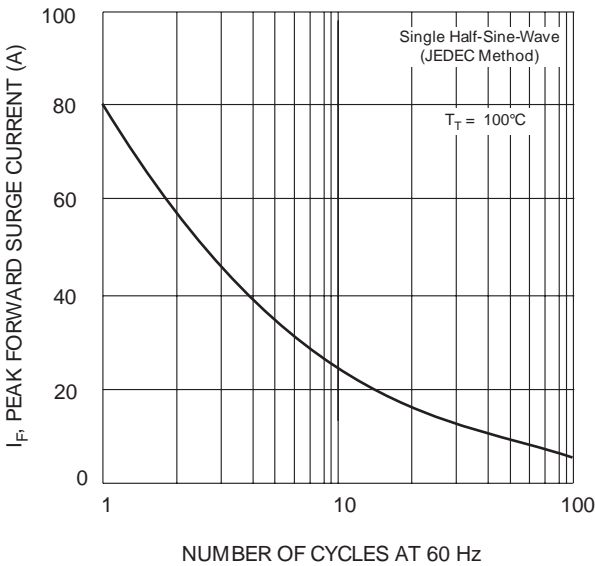


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

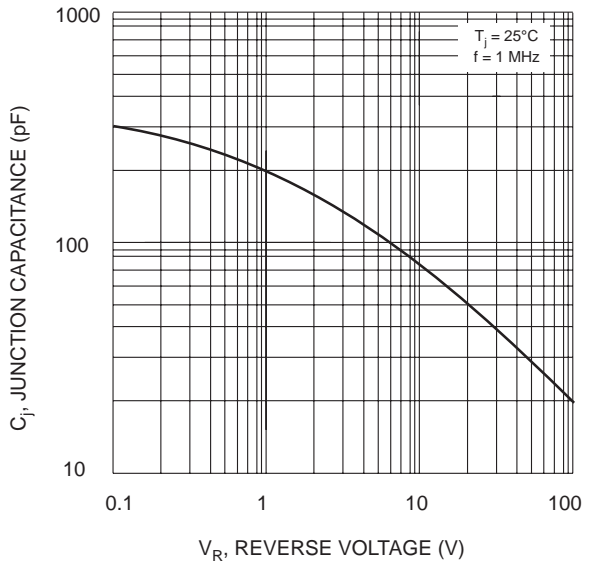


Fig. 4 Typical Junction Capacitance

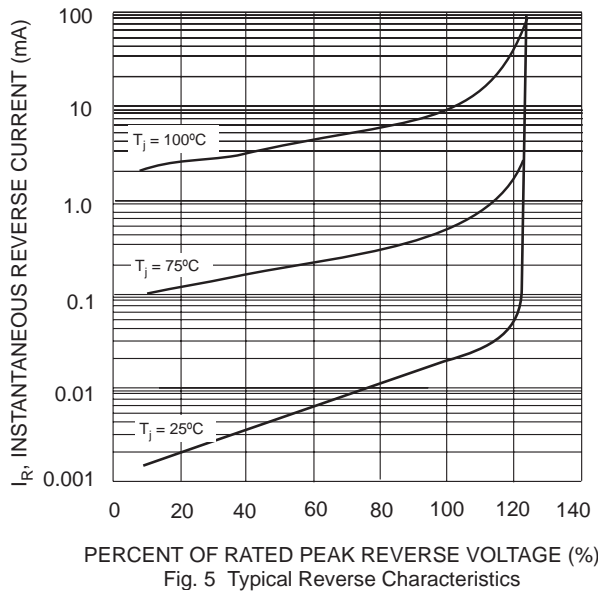


Fig. 5 Typical Reverse Characteristics