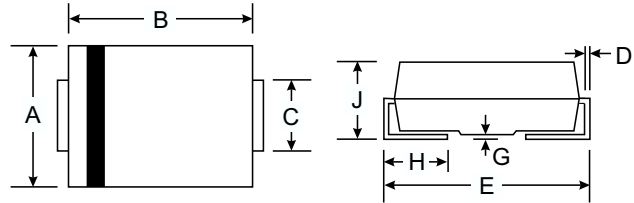


Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 80 A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
SMB/DO-214AA, Molded Plastic
SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: SMA Weight: 0.064 grams (approx.)
SMB Weight: 0.093 grams (approx.)
SMC Weight: 0.20 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version**

Dim	SMA		SMB		SMC	
	Min	Max	Min	Max	Min	Max
A	2.29	2.92	3.30	3.94	5.59	6.22
B	4.00	4.60	4.06	4.57	6.60	7.11
C	1.27	1.63	1.96	2.21	2.75	3.18
D	0.15	0.31	0.15	0.31	0.15	0.31
E	4.80	5.59	5.00	5.59	7.75	8.13
G	0.10	0.20	0.10	0.20	0.10	0.20
H	0.76	1.52	0.76	1.52	0.76	1.52
J	2.01	2.62	2.00	2.62	2.00	2.62
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @_{T_A}=25°C unless otherwise specified

Characteristic	Symbol	SS32	SS33	SS34	SS35	SS36	SS38	SS 3100	SS 3150	SS 3200	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}											
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	80	100	150	200	V	
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} = 95°C (Note 1)	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} = 3.0A	V _{FM}	0.5			0.75		0.85		0.92		V	
Peak Reverse Current @ _{T_A} = 25°C At Rated DC Blocking Voltage @ _{T_A} = 100°C	I _{RM}					0.5		20				mA
Typical Junction Capacitance (Note 2)	C _j	250									pF	
Typical Thermal Resistance (Note 1)	R _{θJA}	20									°C/W	
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150									°C	

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

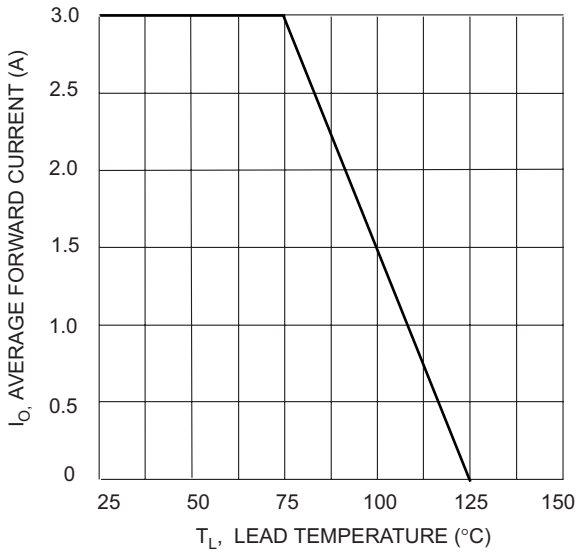


Fig. 1 Forward Current Derating Curve

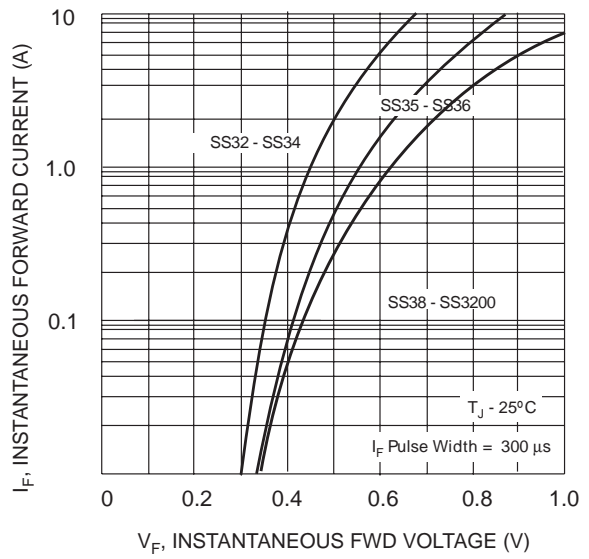


Fig. 2 Typ. Forward Characteristics

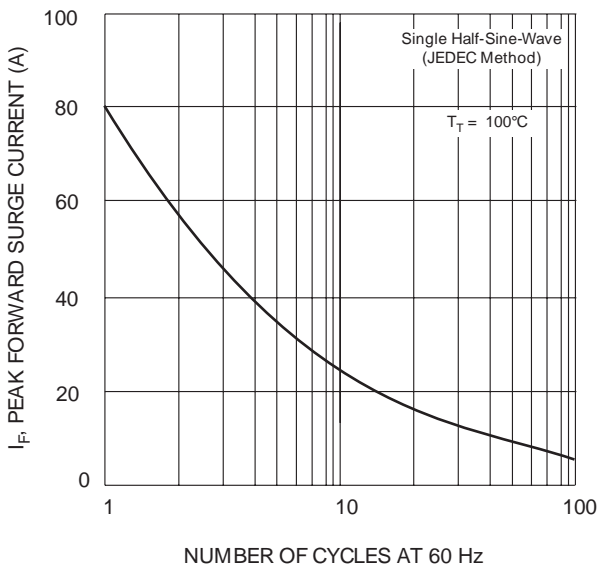


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

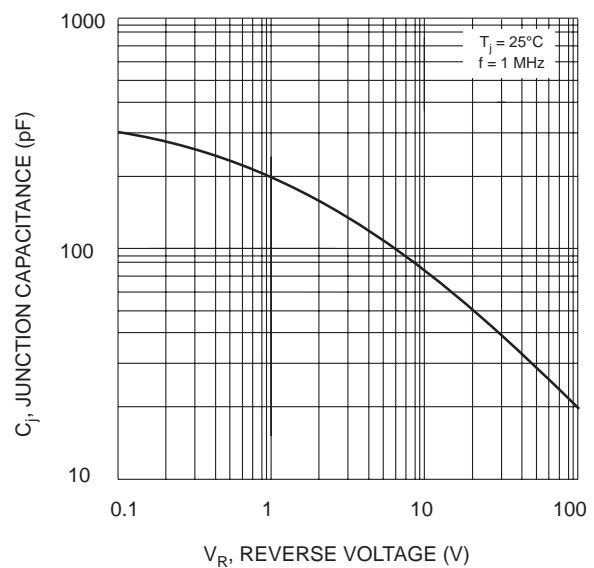


Fig. 4 Typical Junction Capacitance

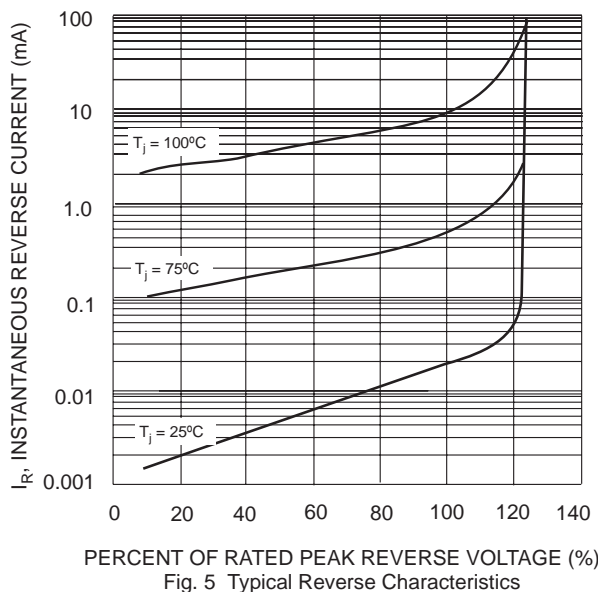


Fig. 5 Typical Reverse Characteristics