

**VOLTAGE RANGE: 50 - 600V**

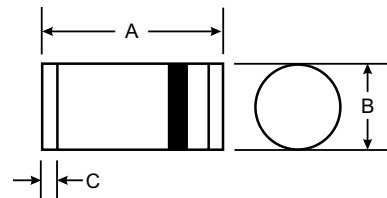
**CURRENT: 1.0 A**

### Features

- Glass Passivated Junction
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- For Surface Mounted Application
- Plastic Material UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: LL41(DO-213AB), Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Approx Weight: 0.25 grams
- Mounting Position: Any
- Marking: Cathode Band Only



LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SM4933	SM4934	SM4935	SM4936	SM4937	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	V
Maximum Average Forward Rectified Current @ T <sub>T</sub> =75°C	I <sub>O</sub>	1.0					A
Peak Forward Surge Current 8.3 ms half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30					A
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> = 1.0A	V <sub>F</sub>	1.2					V
Maximum DC Reverse Current at Rated Blocking Voltage	I <sub>R</sub>	5.0					μA
Maximum Full Load Reverse Current Full Cycle Average @ T <sub>T</sub> = 55°C	I <sub>R</sub>	100					μA
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	200					ns
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	15					pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150					°C

Notes: 1. Reverse Recovery Test Conditions: I<sub>F</sub> = 1.0A, V<sub>R</sub> = 30V, di/dt = 50 A/μs.  
2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V.

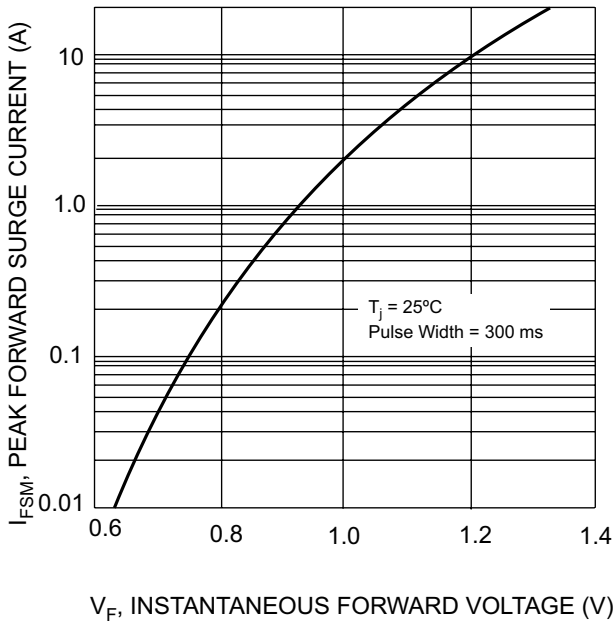


Fig. 1 Peak Forward Surge Current vs Forward Voltage

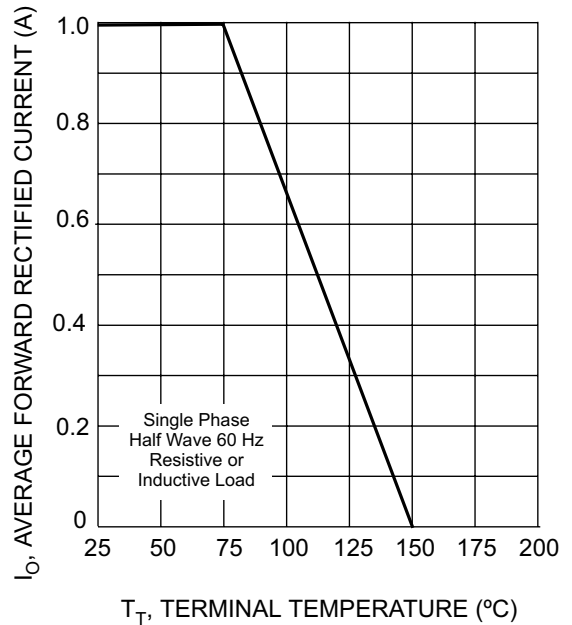


Fig. 2 Forward Derating Curve

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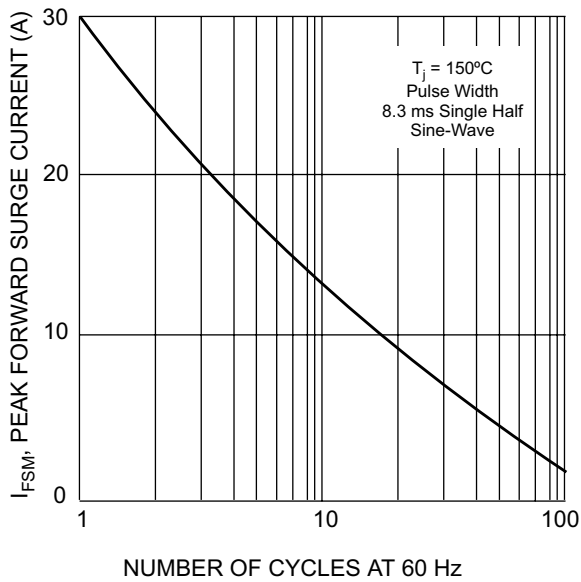


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

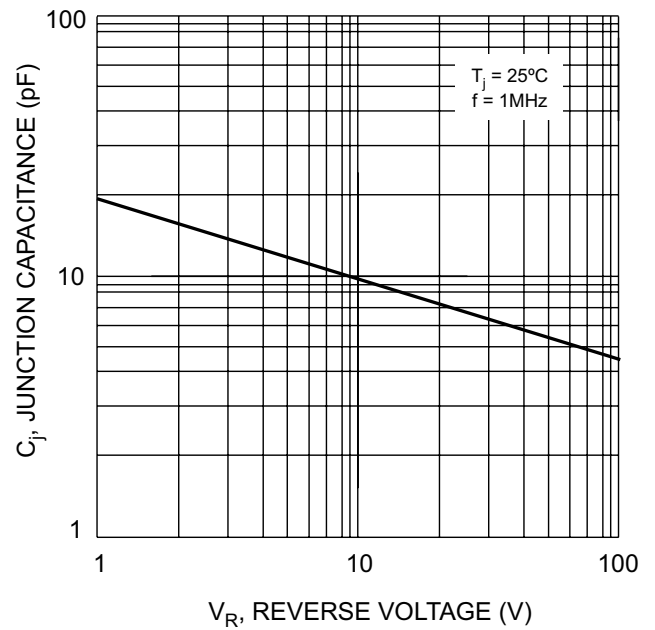


Fig. 4 Junction Capacitance vs Reverse Voltage