

VOLTAGE RANGE: 50 - 600V

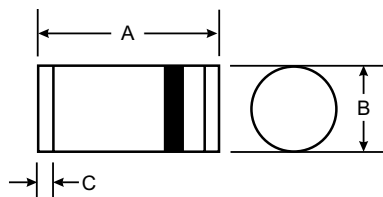
CURRENT: 1.0 A

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



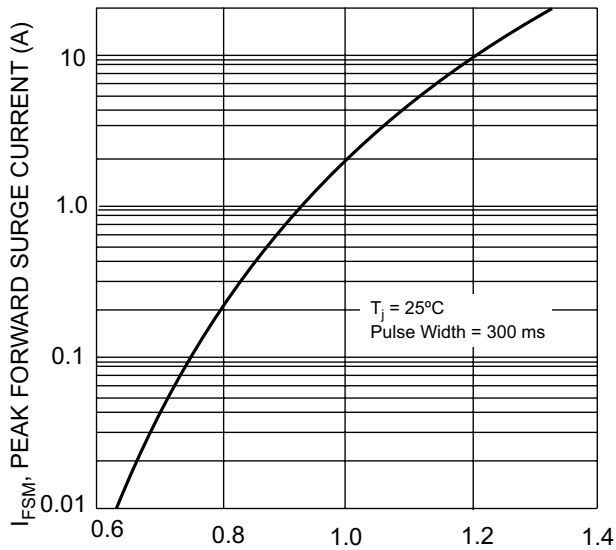
LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ 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_{RRM} V_{RWM} V_R	50	100	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	V
Maximum Average Forward Rectified Current @ $T_T = 75^\circ\text{C}$	I_O	1.0					A
Peak Forward Surge Current 8.3 ms half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum Instantaneous Forward Voltage @ $I_F = 1.0\text{A}$	V_F	1.2					V
Maximum DC Reverse Current at Rated Blocking Voltage	I_R	5.0					μA
Maximum Full Load Reverse Current Full Cycle Average @ $T_T = 55^\circ\text{C}$	I_R	100					μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	200					ns
Typical Junction Capacitance (Note 2)	C_j	15					pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150					$^\circ\text{C}$

Notes: 1. Reverse Recovery Test Conditions: $I_F = 1.0\text{A}$, $V_R = 30\text{V}$, $di/dt = 50\text{ A}/\mu\text{s}$.
2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V.



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 1 Peak Forward Surge Current vs Forward Voltage

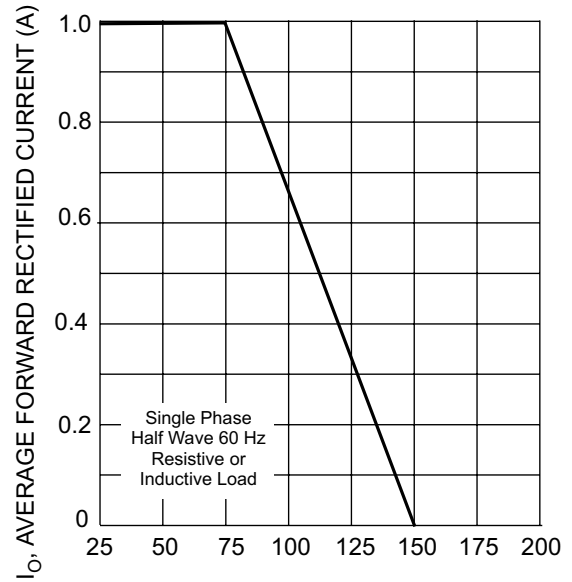


Fig. 2 Forward Derating Curve

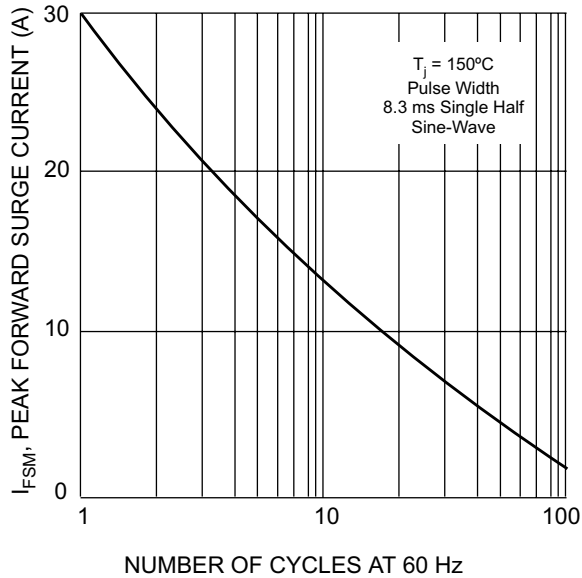


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

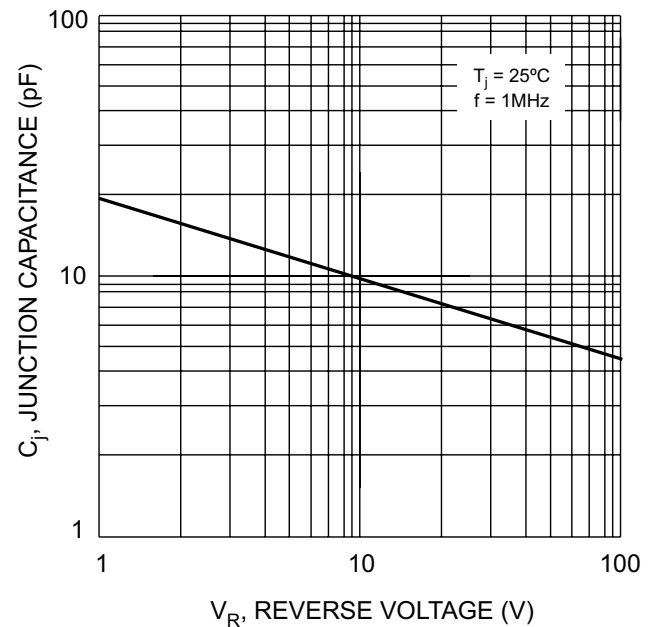


Fig. 4 Junction Capacitance vs Reverse Voltage