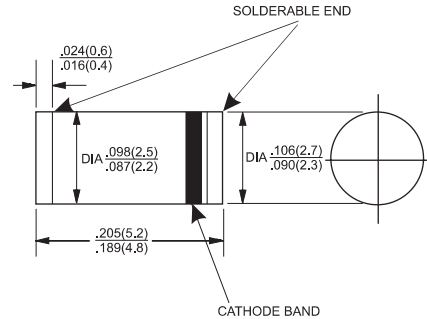




### MELF



### 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: MELF, Plastic
- ✧ Polarity: Cathode band
- ✧ Approx Weight: 0.25 grams
- ✧ Mounting Position: Any
- ✧ Marking: Cathode Band Only

Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	Symbol	DL4933	DL4934	DL4935	DL4936	DL4937	Units	
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	V	
Working Peak Reverse Voltage	$V_{RWM}$							
DC Blocking Voltage	$V_R$							
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						$\mu\text{A}$
Maximum Full Load Reverse Current Full Cycle Average @ $T_T = 55^\circ\text{C}$	$I_R$	100						$\mu\text{A}$
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.

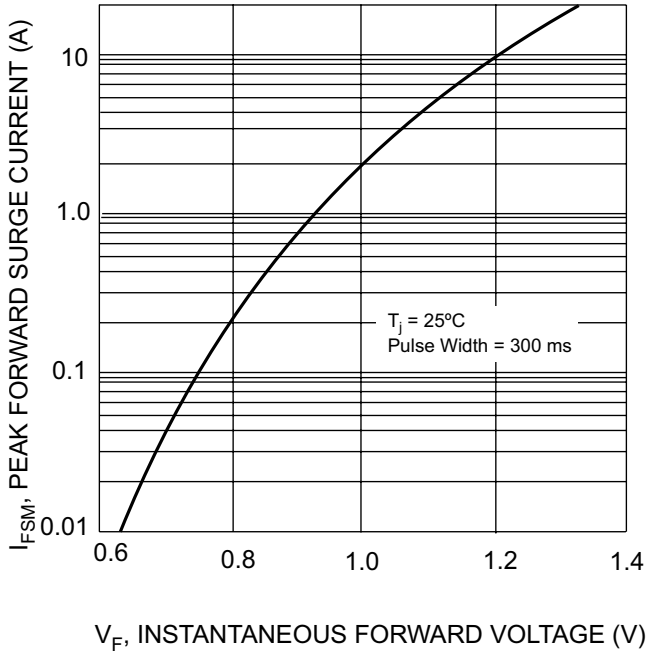


Fig. 1 Peak Forward Surge Current vs Forward Voltage

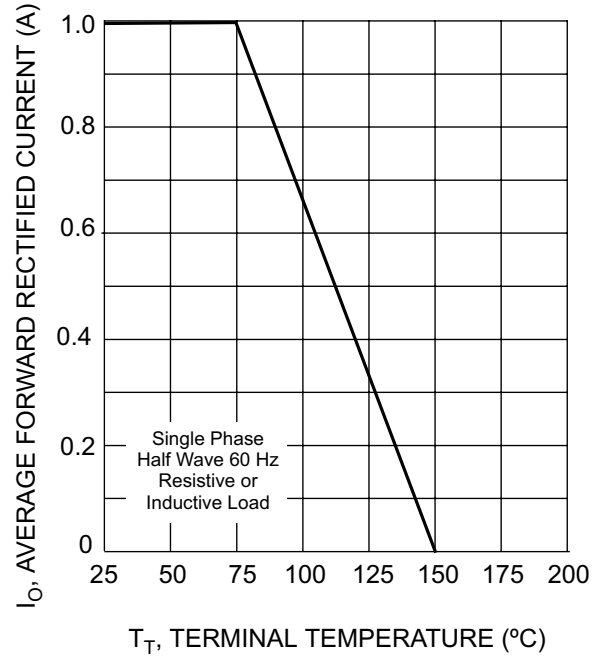


Fig. 2 Forward Derating Curve

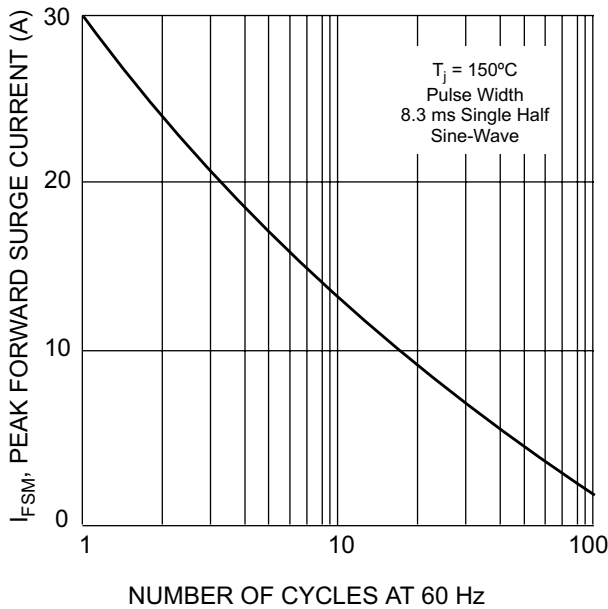


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

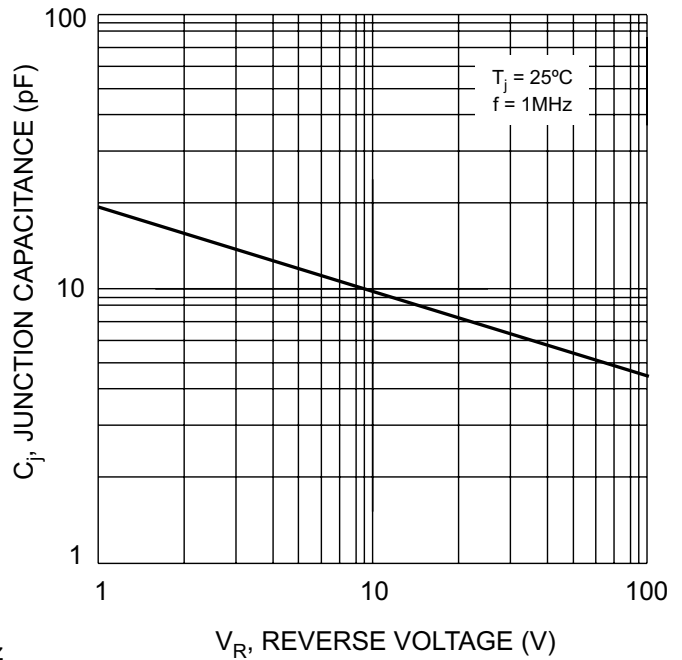


Fig. 4 Junction Capacitance vs Reverse Voltage