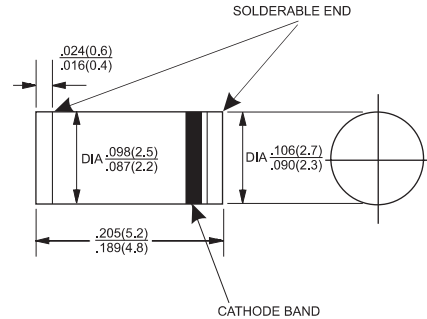




### MELF



### 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)

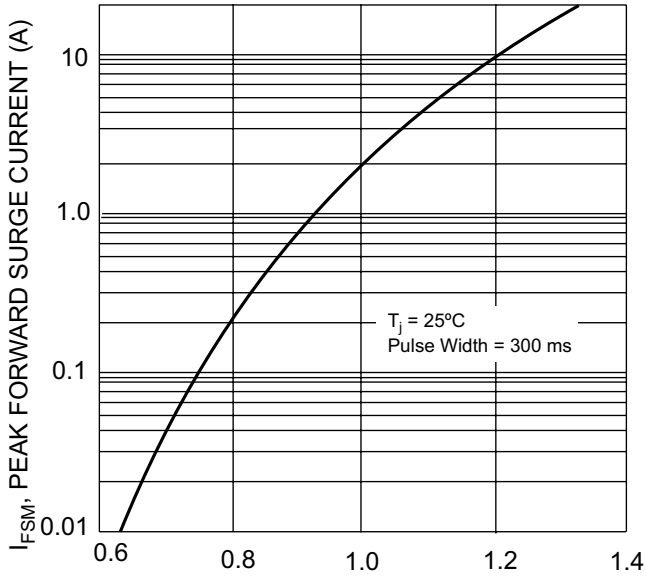
### Maximum Ratings and Electrical Characteristics

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

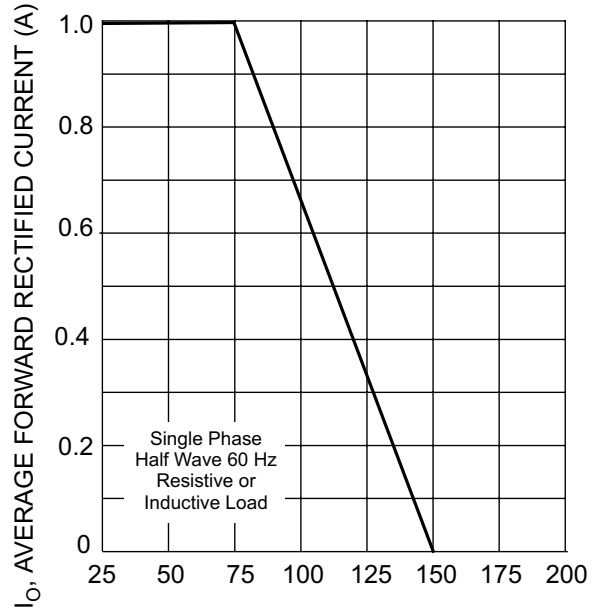
For capacitive load, derate current by 20%.

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.



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



$T_T$ , TERMINAL TEMPERATURE (°C)  
Fig. 2 Forward Derating Curve

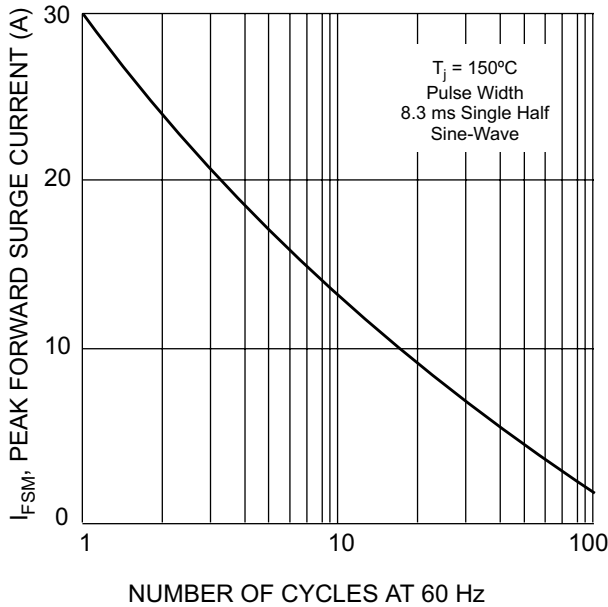
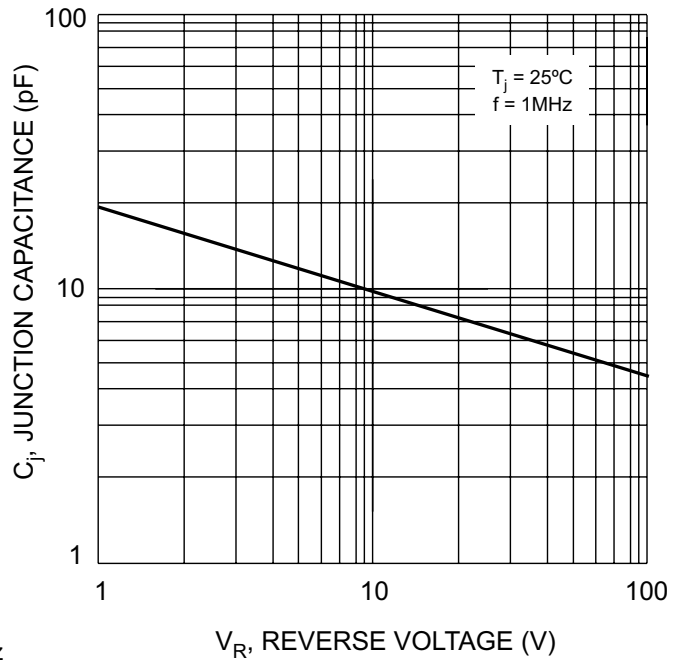


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz



$V_R$ , REVERSE VOLTAGE (V)  
Fig. 4 Junction Capacitance vs Reverse Voltage