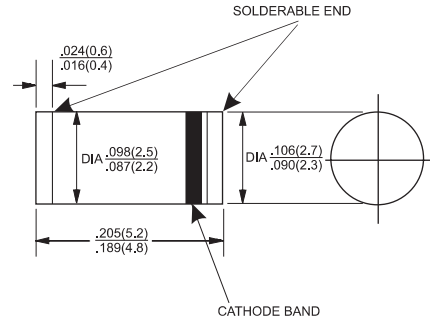




MELF



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 @ $T_T=75^{\circ}C$	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 @ $I_F = 1.0A$	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 @ $T_T = 55^{\circ}C$	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					$^{\circ}C$

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

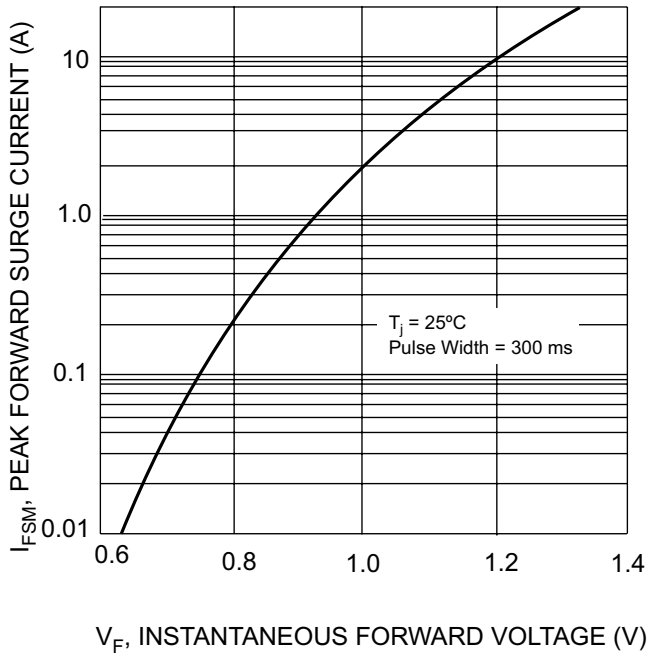


Fig. 1 Peak Forward Surge Current vs Forward Voltage

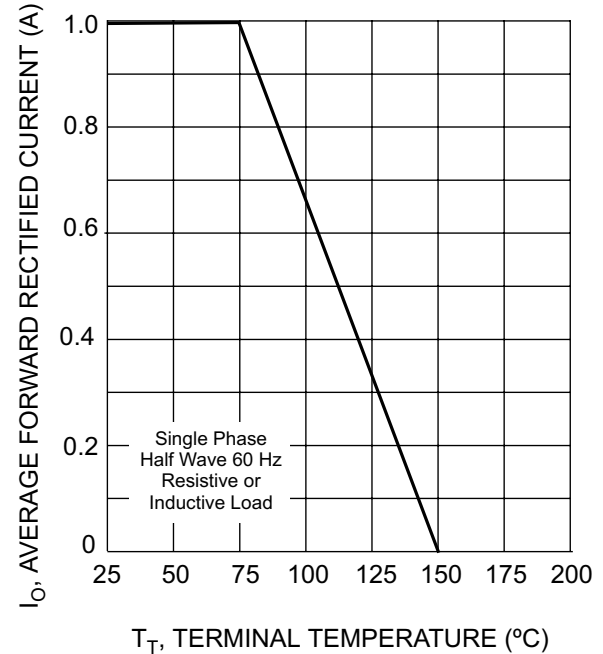


Fig. 2 Forward Derating Curve

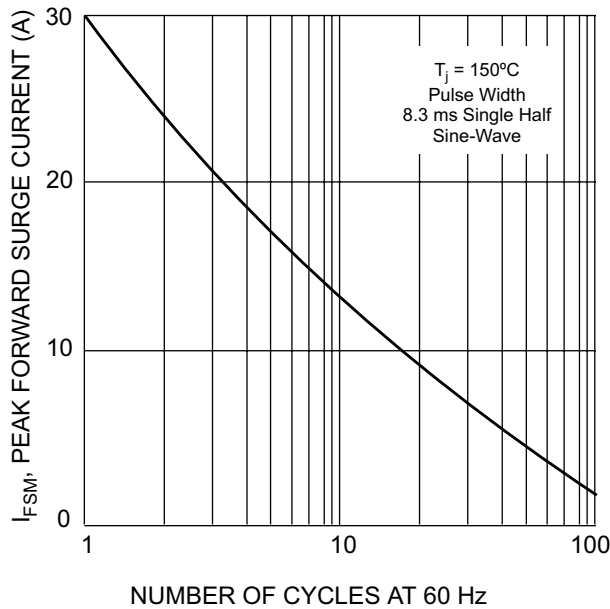


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

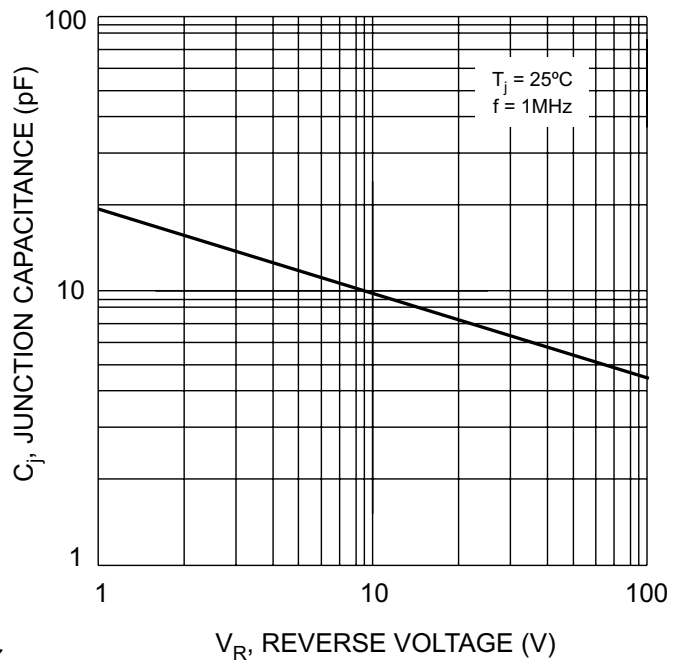


Fig. 4 Junction Capacitance vs Reverse Voltage