

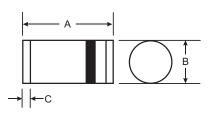
# DL4933 - DL4937

# **1.0A SURFACE MOUNT FAST RECOVERY RECTIFIER**

### Features

NOT RECOMMENDED FOR NEW DESIGN
SUGGESTED REPLACEMENT RS1A - RS1J

Glass Passivated Junction Low Leakage Current Low Forward Voltage Drop High Current Capability Lead Free Finish/RoHS Compliant (Note 3)



#### **Mechanical Data**

#### Case: MELF

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 Lead Free Plating (Matte Tin Finish). Polarity: Cathode Band Approx Weight: 0.25 grams Marking: Cathode Band Only

MELF					
Dim	Min	Мах			
Α	4.80	5.20			
В	2.40	2.60			
С	0.55 Nominal				
All Dimensions in mm					

## Maximum Ratings and Electrical Characteristics @ TA = 25 C unless otherwise specified

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

Characteristic	Symbol	DL4933	DL4934	DL4935	DL4936	DL4937	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
Average Forward Rectified Current @ T <sub>T</sub> = 75°C		1.0					Α
Peak Forward Surge Current 8.3 ms half sine-wave superimposed on rated load		30				А	
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> = 1.0A		1.2				V	
Maximum DC Reverse Current at Rated Blocking Voltage		5.0					Α
Maximum Full Load Reverse Current Full Cycle Average @ T <sub>T</sub> = 55 C		100			Α		
Maximum Reverse Recovery Time (Note 1)		200				ns	
Typical Total Capacitance (Note 2)		15				pF	
Operating and Storage Temperature Range		-65 to +150			С		

Notes: 1. Reverse Recovery Test Conditions:  $I_F = 1.0A$ ,  $V_R = 30V$ , di/dt = 50 A/ s.

2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V.

3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

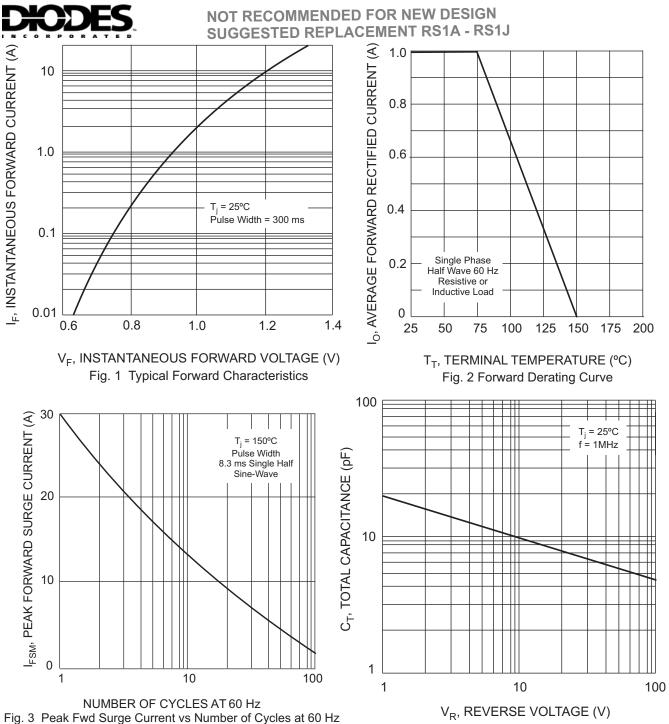


Fig. 4 Typical Total Capacitance vs Reverse Voltage

## **Ordering Information**

Device	Packaging	Shipping
DL4933-13-F	MELF	5,000/Tape & Reel
DL4934-13-F	MELF	5,000/Tape & Reel
DL4935-13-F	MELF	5,000/Tape & Reel
DL4936-13-F	MELF	5,000/Tape & Reel
DL4937-13-F	MELF	5,000/Tape & Reel



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