

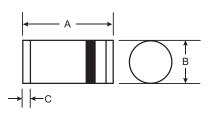
DL4933 - DL4937

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 _{RRM} V _{RWM} V _R	50	100	200	400	600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	V
Average Forward Rectified Current @ T _T = 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 @ $I_F = 1.0A$		1.2				V	
Maximum DC Reverse Current at Rated Blocking Voltage		5.0					Α
Maximum Full Load Reverse Current Full Cycle Average @ T _T = 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.

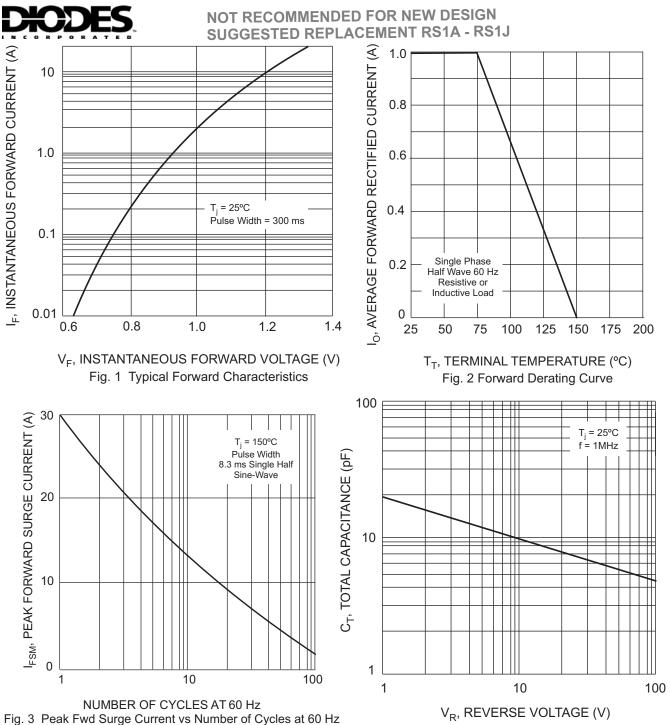


Fig. 4 Typical Total Capacitance vs Reverse Voltage

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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