



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

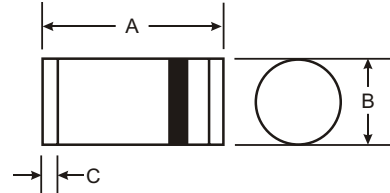
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



### Features

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



### Mechanical Data

- Case: MELF
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 4, on Page 2
- Polarity: Cathode Band
- Approx Weight: 0.25 grams
- Marking: Cathode Band Only

MELF		
Dim	Min	Max
A	4.80	5.20
B	2.60	2.64
C	0.55 Nominal	
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ 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 @ $T_T = 75^\circ\text{C}$	$I_O$	1.0					A
Peak Forward Surge Current 8.3 ms half sine-wave superimposed on rated load	$I_{FSM}$	30					A
Maximum Instantaneous Forward Voltage @ $I_F = 1.0\text{A}$	$V_{FM}$	1.2					V
Maximum DC Reverse Current at Rated Blocking Voltage	$I_{RM}$	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 Total Capacitance (Note 2)	$C_T$	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.
  3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7*.

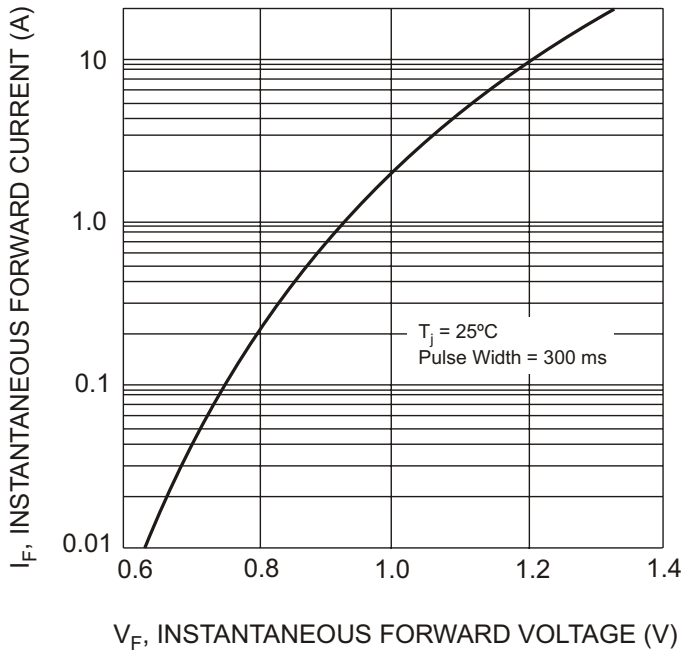


Fig. 1 Typical Forward Characteristics

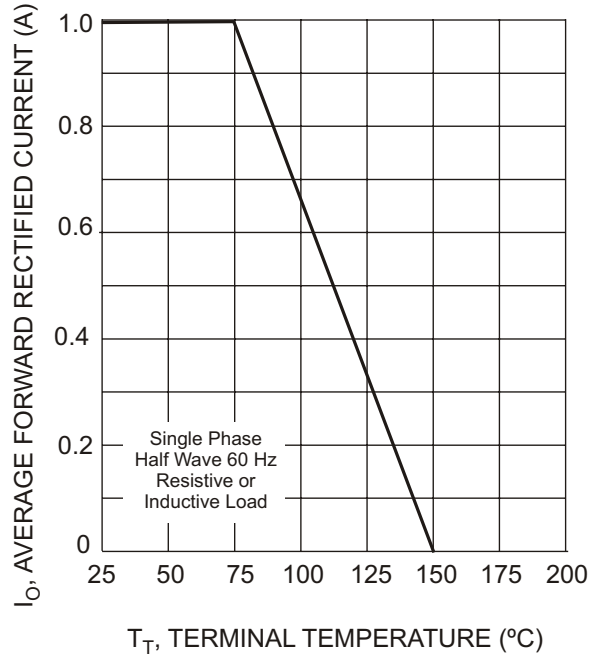


Fig. 2 Forward Derating Curve

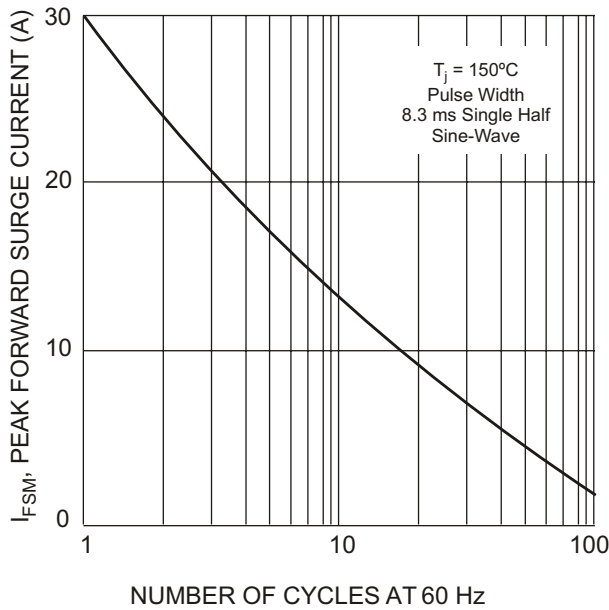


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

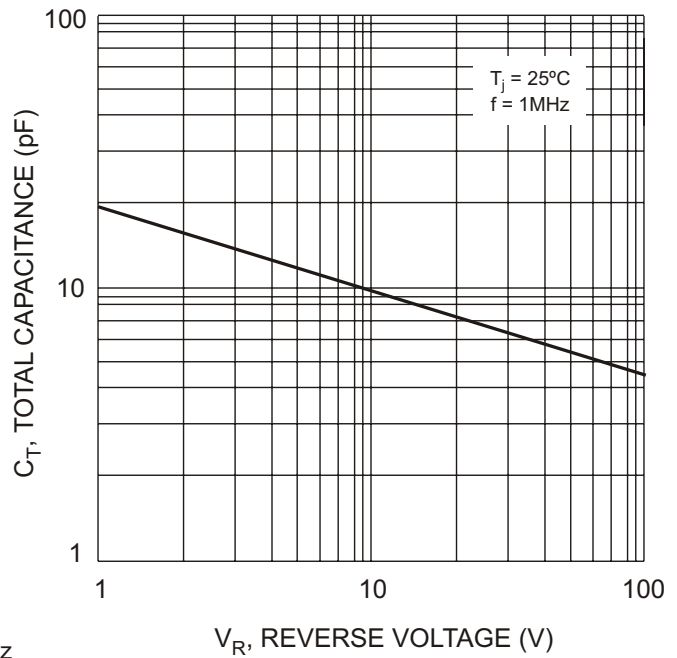


Fig. 4 Typical Total Capacitance vs Reverse Voltage

**Ordering Information** (Note 4)

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

Note: 4. For Lead Free Finish/RoHS Compliant version part number, please add "-F" suffix to the part number above.  
Example: DL4935-13-F.