



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!



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Micro Commercial Components



Micro Commercial Components
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DL4151

500mA Small Signal Diode 75 Volts

Features

- Fast Switching Speed and Low Forward Voltage Drop
- High Reverse Breakdown Voltage and High Conductance
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

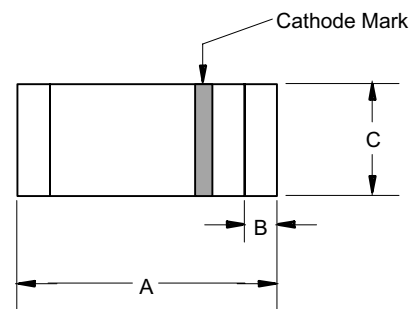
Parameter	Symbol	DL4151	Unit
Repetitive peak reverse voltage	V_{RRM}	75	V
RMS reverse voltage	$V_{R(RMS)}$	50	V
Peak forward surge current ($t_p=1\mu s$)	I_{FSM}	2	A
Repetitive peak forward current	I_{FM}	500	mA
Continuous forward current	I_F	300	mA
Average forward current	$I_{F(AV)}$	150	mA
Power dissipation	P_D	500	mW
Junction temperature	T_j	175	°C
Storage temperature range	T_{stg}	-65 to +175	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

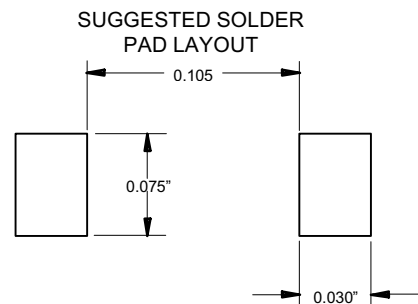
Paramet	Symbol	Min	Max	Unit	Test Conditions
Forward Voltage	V_F	....	1	V	$I_F=50mA$
Reverse Current	I_R	....	50	nA	$V_R=50V, T_j=25^\circ C$
		....	50	uA	$V_R=50V, T_j=125^\circ C$
Breakdown Voltage	$V_{(BR)}$	75	....	V	$I_R=5uA$
Junction Capacitance	C_j	....	2	pF	$V_R=0, f=1.0MHz$
Reverse recovery time	t_{rr}	....	2	ns	$I_F=10mA, V_R=6V, I_R=1mA, R_L=100\Omega$

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.

MINIMELF

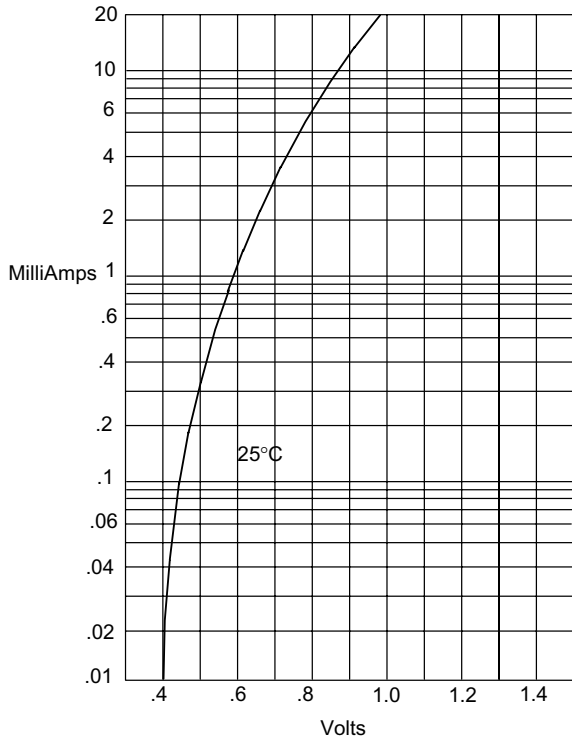


DIM	DIMENSION				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	



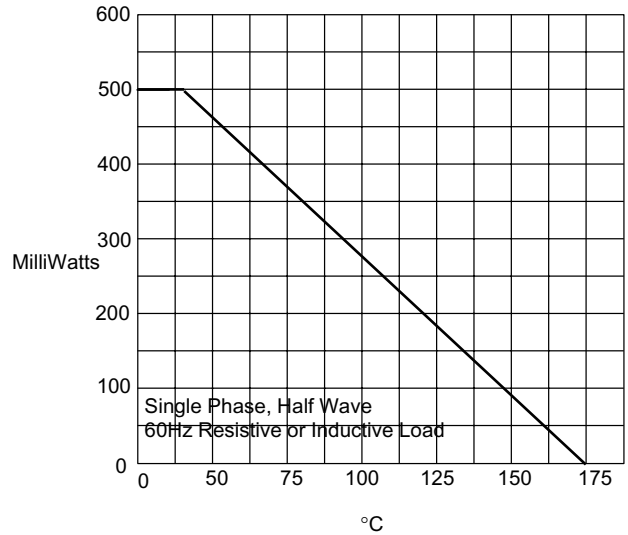
DL4151

Figure 1
Typical Forward Characteristics



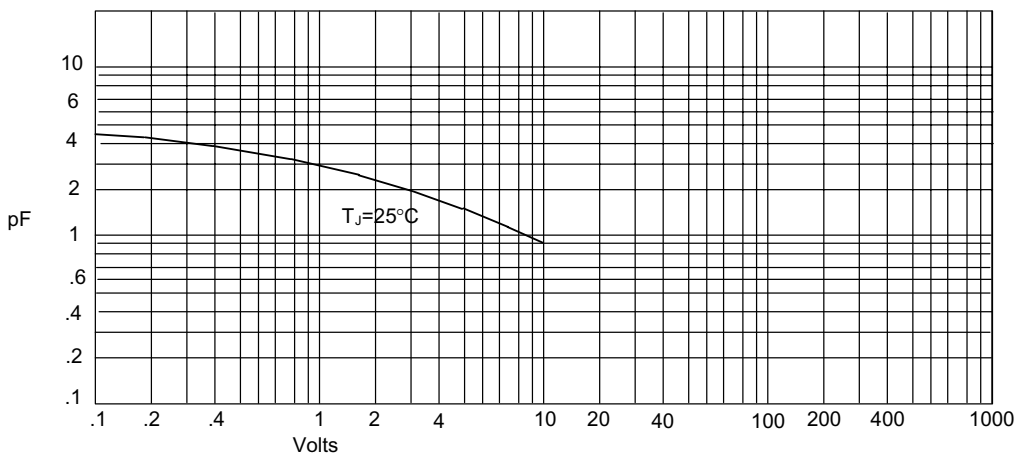
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Admissible Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

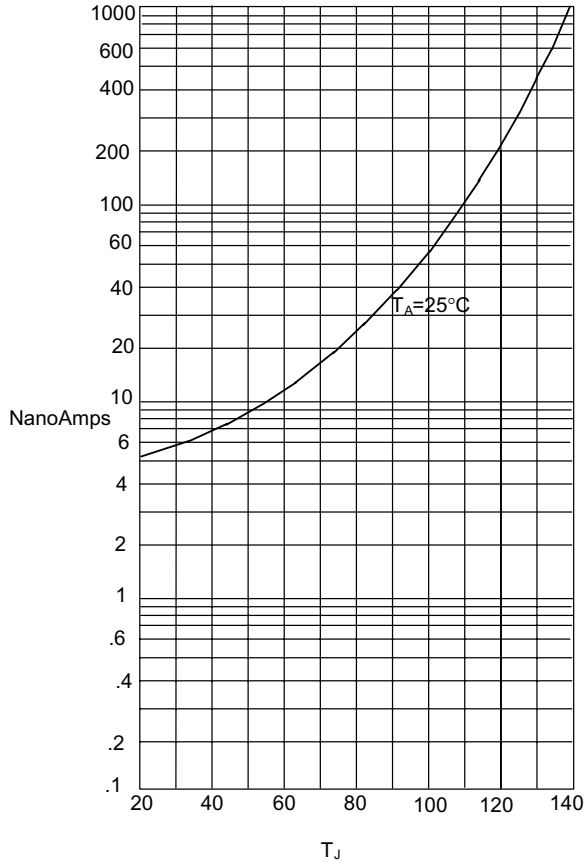
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

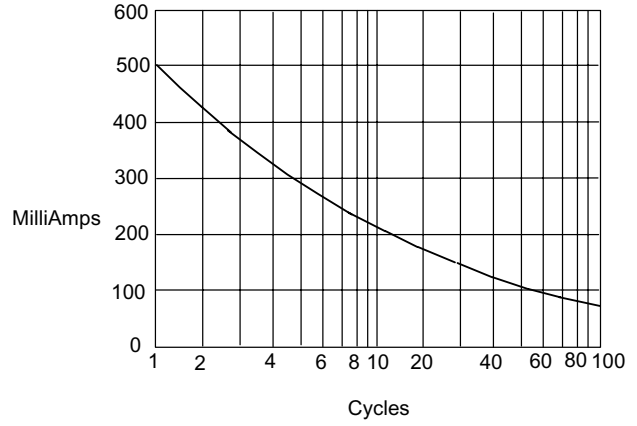
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes versus
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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