

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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## Features

- For general purpose and switching
- Silicon Epitaxial Planar Diodes
- These diodes are also available in other case styles including: the DO-35 case with the type designations 1N4150, the SOD-123 case with the type designations 1N4150W
- 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

## Maximum Ratings@ 25°C Unless Otherwise Specified

Parameter	Symbol	Value	Condition
Working Inverse Voltage	$W_{IV}$	50V	
Maximum Rectified Current (Average)	$I_o$	200mA	
DC Forward Current	$I_F$	400mA	
Recurrent Peak Forward Current	$i_f$	600mA	
Peak Forward Surge Current	$i_{f(surge)}$	1.0A 4.0A	Pulse Width=1.0s Pulse Width=1.0 $\mu$ s
Storage Temperature Range	$T_{stg}$	-65°C to +200°C	
Operating Junction Temperature	$T_J$	175°C	

## Thermal Characteristics @ 25°C Unless Otherwise Specified

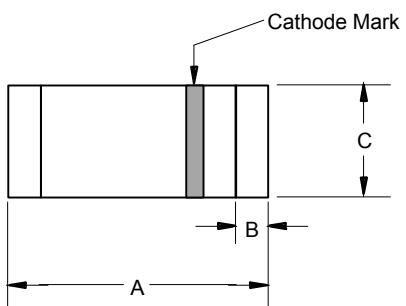
Total Device Dissipation Derate above 25°C	$P_D$	500mW 3.33mW/°C	
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	300°C/W	

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

## DL4150

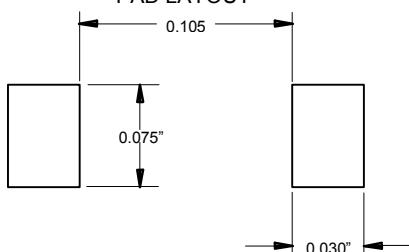
**200mA  
Small Signal  
Diodes  
50 Volts**

## MINIMELF(SOD-80C)



DIM	INCHES		MM		NOTE
	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	

### SUGGESTED SOLDER PAD LAYOUT



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**Electrical Characteristics@ 25°C Unless Otherwise Specified**

Parameter	Symbol	Min	Max	Units	Test Conditions
Breakdown Voltage	$B_V$	75	---	V	$I_R=5.0 \mu A$
Reverse Current	$I_R$	---	100 100	nA $\mu A$	$V_R=50V$ $V_R=50V, T_A=150^\circ C$
Forward Voltage	$V_F$	540 660 760 820 0.57	620 740 860 920 1.0	mV mV mV mV V	$I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=100mA$ $I_F=200mA$
Diode Capacitance	$C_O$	---	2.5	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$T_{RR}$	---	4.0 6.0	nS nS	$I_F=I_R=10mA-200mA, R_L=100 \Omega$ $I_F=I_R=200mA-400mA, R_L=100 \Omega$
Forward Recovery Time	$T_{FR}$	---	10	nS	$I_F=200mA, V_{FR}=1.0V$

<sup>TM</sup>

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## Ordering Information :

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

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