



Micro Commercial Components



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DL4150

**200mA
Small Signal
Diodes
50 Volts**

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

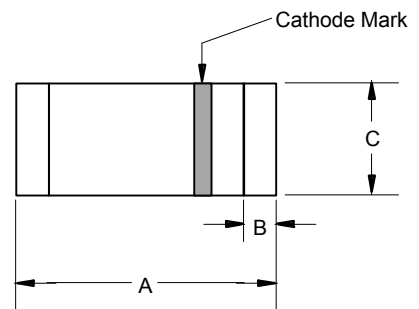
Parameter	Symbol	Value	Condition
Working Inverse Voltage	W_{IV}	50V	
Maximum Rectified Current (Average)	I_o	200mA	
DC Forward Current	I_F	400mA	
Recurrent Peak Forward Current	i_{fr}	600mA	
Peak Forward Surge Current	$i_{f(surge)}$	1.0A 4.0A	Pulse Width=1.0s Pulse Width=1.0 μ s
Storage Temperature Range	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	

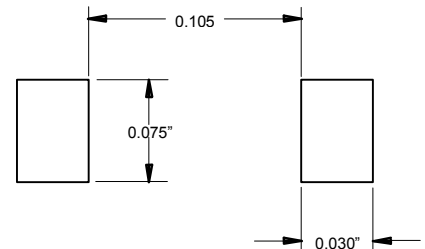
Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.

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



DL4150

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 μA	$V_R=50V$ $V_R=50V, T_A=150^\circ C$
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	$I_F=200mA, V_{FR}=1.0V$

Ordering Information :

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

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