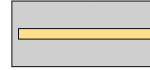


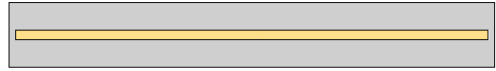
### Features

- High Isolation
- Performance up to 50GHz
- Suitable for solder or conductive epoxy attach

C50



C51



### Description

SemiGen's SSPN series are Silicon PIN diodes integrated into a 50Ω transmission line. These microstrips are designed to be operated in shunt as reflective RF attenuators.



### Absolute Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
Reverse Voltage	200V
Forward Current	150mA
Mounting Temperature	+320°C for 10 seconds
Junction Temperature <sup>2,3</sup>	+175°C
Storage Temperature	-65°C to +200°C

### Static Sensitivity

These electronic devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.

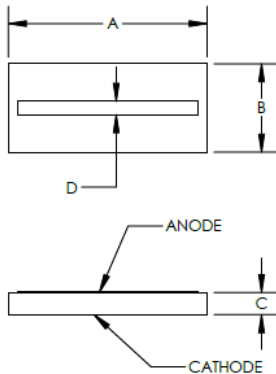
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. SemiGen does not recommend sustained operation near these survivability limits.

### Electrical Specifications: $T_A = +25\text{ }^\circ\text{C}$

Test Conditions	Frequency	$V_B$	$I_R$	$I_L$	$R_L$	$I_{SO}$	Outline
	Range (GHz)	$I_R=10\mu\text{A}$ MIN	$V_R=30\text{V}$ MAX	$V_R=0\text{V}$ MAX	$V_R=0\text{V}$ MIN	$I_R=40\text{mA}$ MIN	
Part Number		(V)	(nA)	(dB)	(dB)	(dB)	
SSPN100045	2-20	200	100	1	12	30	C50
SSPN100150	2-35	200	200	3	12	50	C51

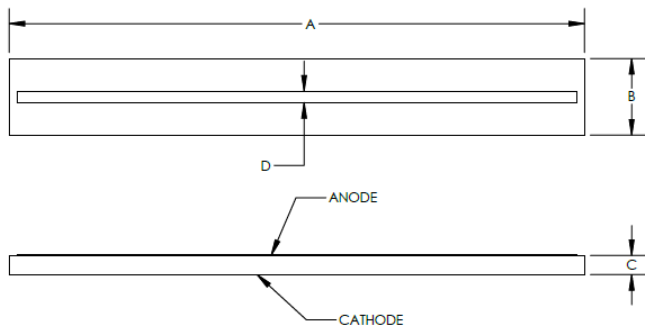
### Outline Drawings

#### C50



DIMENSIONS (INCHES)			
ITEM	MIN	NOM	MAX
A	.043	.045	.047
B	.018	.020	.022
C	.004	.005	.006
D	-	.003	-

#### C51



DIMENSIONS (INCHES)			
ITEM	MIN	NOM	MAX
A	.148	.150	.152
B	.018	.020	.022
C	.004	.005	.006
D	-	.003	-



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