

SILICON PIN DIODE CHIP

DESCRIPTION:

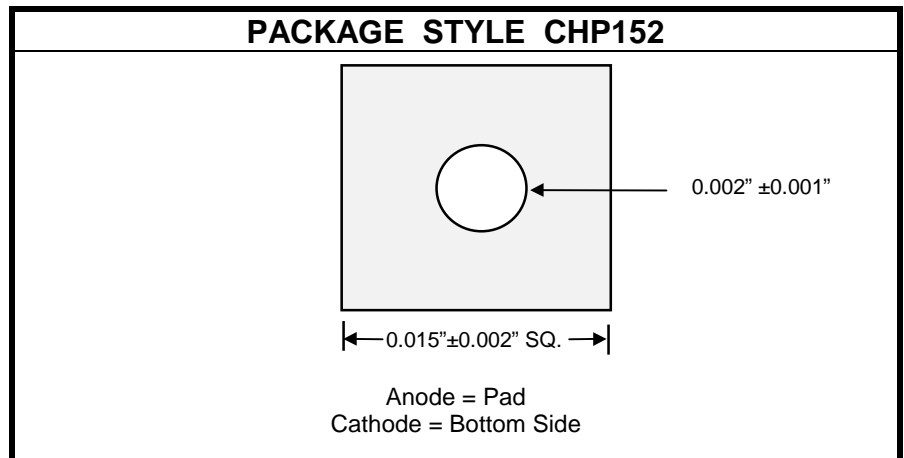
The **AP1000B-00** is a Planar Silicon PIN Diode Chip Designed for High Speed Switch and Limiter Applications Up to 18 GHz.

FEATURES INCLUDE:

- **Low Capacitance** - 0.10 pF Typical
- **Fast Switching** - 10 nS Typical
- **SiO₂ Passivation**

MAXIMUM RATINGS

I_F	100 mA
V_R	100 V
P_{DISS}	0.5 W @ T _A = 25 °C
T_J	-65 °C to +150 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	50 °C/W


CHARACTERISTICS T_A = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA	100			V
C_J	V _R = 10 V f = 1.0 MHz			0.10	pF
R_S	I _F = 20 mA f = 100 MHz		1.0	2.0	Ohms
T_L	I _F = 10 mA I _R = 6.0 mA		100		nS
t_{rr}	I _F = 20 mA V _R = 10 V			10	nS