

SILICON PIN DIODE CHIP

DESCRIPTION:

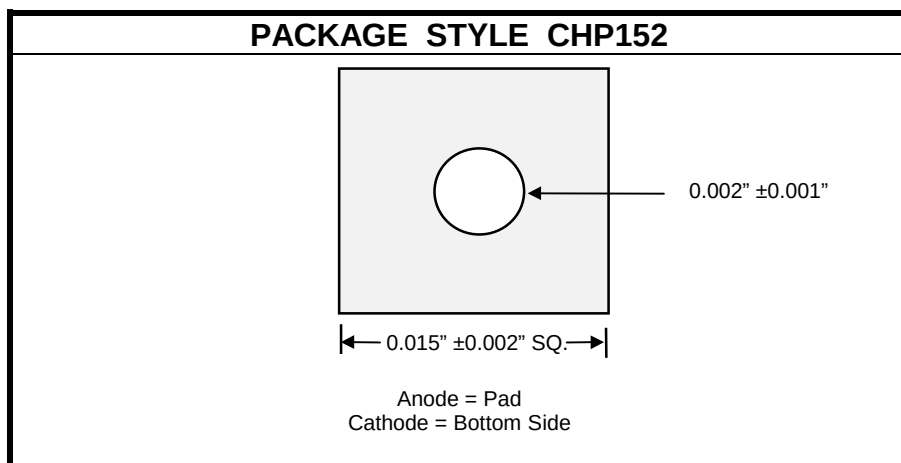
The **AP2000A-00** is a Planar Silicon PIN Diode Chip Designed for Medium Speed Switching Applications Up to 18 GHz.

FEATURES INCLUDE:

- Low Capacitance - 0.10 pF Typical
- Fast Switching - 15 nS Typical
- SiO₂ Passivation

MAXIMUM RATINGS

I_F	100 mA
V_R	120 V
P_{DISS}	0.5 W @ T _A = 25 °C
T_J	-65 °C to +175 °C
T_{STG}	-65 °C to +200 °C
θ_{JC}	45 °C/W



CHARACTERISTICS T_A = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA		120			V
C_J	V _R = 10 V	f = 1.0 MHz			0.10	pF
R_S	I _F = 10 mA	f = 100 MHz		1.0	1.5	Ω
T_L	I _F = 10 mA	I _R = 6.0 mA		150		nS
t_{rr}	I _F = 20 mA	V _R = 10 V			15	nS