

SILICON PIN DIODE CHIP

DESCRIPTION:

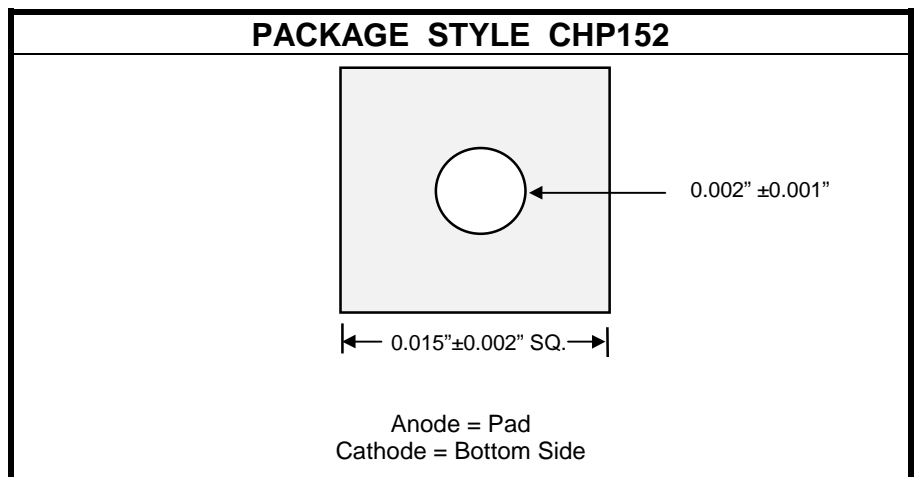
The **AP0300A-00** is a Planar Silicon PIN Diode Chip Designed for High Speed Switch and Limiter Applications Up to 18 GHz.

FEATURES INCLUDE:

- Low Capacitance- 0.15 pF Typical
- **ULTRA** Fast Switching - 3nS Typical
- SiO₂ Passivation

MAXIMUM RATINGS

I_F	100 mA
V_R	30 V
P_{DISS}	0.25 W @ T _A = 25 °C
T_J	-65 °C to +150 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	35 °C/W


CHARACTERISTICS T_A = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA	30			V
C_J	V _R = 0 V f = 1.0 MHz			0.15	pF
	V _R = 20 V f = 1.0 MHz		0.12		
R_S	I _F = 20 mA f = 100 MHz		1.0	1.5	Ohms
T_L	I _F = 10 mA I _R = 6.0 mA		10		nS
t_{rr}	I _F = 20 mA V _R = 10 V			3	nS