MICROSTRIP/STRIPLINE PIN DIODE SWITCH

DESCRIPTION:

The **ASI 5082-3340** is a Silicon PIN Diode Module Designed for Reflective Attenuator and Switching Applications from 1 to 18 GHz.

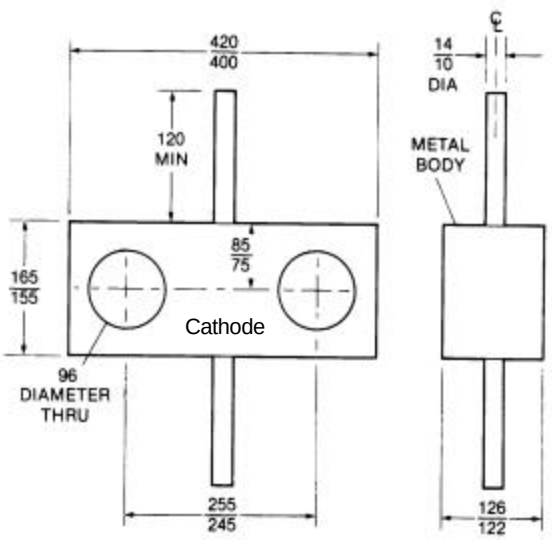
FEATURES INCLUDE:

- Direct Replacement for **HP 5082-3340**
- Isolation = 20 dB min. at 10 GHz
- Hermetic Package

MAXIMUM RATINGS

I_F	250 mA
V_R	150 V
P_{DISS}	2.5 W @ T_C = 25 ^{O}C
T_J	-65 ^{O}C to +150 ^{O}C
T_{STG}	-65 ^{O}C to +150 ^{O}C
θ_{JC}	50 ^{O}C/W

PACKAGE STYLE M-50



ORDER CODE: ASI30254

CHARACTERISTICS T_C = 25 ^{O}C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I_R = 10 µA	150			V
V_F	I_F = 100 mA			1.0	V
τ	I_F = 50 mA I_R = 250 mA		400		mS
I_L	I_F = 0 mA P_{IN} = 0 dBm f = 10 GHz			0.5	dB
I_L	I_F = 100 mA P_{IN} = 0 dBm f = 10 GHz	20			dB
V_{SWR}	I_F = 0 mA P_{IN} = 0 dBm f = 10 GHz			1.5:1	---

NOTE: The **ASI 5082-3340** was designed to be a single piece hermetic replacement for the **HP 5082-3340** diode. It features an internal low pass filter structure with a corner frequency of 20 GHz which yields insertion loss and isolation performance equivalent to the original HP device while maintaining mechanical compatible in most applications.