

MICROSTRIP/STRIPLINE PIN DIODE SWITCH

DESCRIPTION:

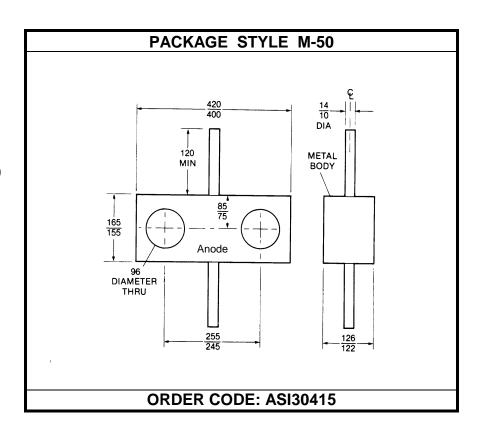
The **ASI 5082-3040** is a Silicon PIN Diode Module Designed for Reflective Attenuator and Switching Applications from 1 GHz to 18 GHz.

FEATURES INCLUDE:

- Direct Replacement for HP 5082-3040
- Isolation = 20 dB min. at 10 GHz
- Hermetic Package

MAXIMUM RATINGS

I _F	250 mA					
V_R	70 V					
P _{DISS}	2.5 W @ T _C = 25 °C					
TJ	-65 °C to +125 °C					
T _{STG}	-65 °C to +125 °C					
θ _{JC}	40 °C/W					



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu A$			150			V
V_{F}	I _F = 100 mA					1.0	V
	I 50 A	1 050 ·· A			400		0
τ	$I_F = 50 \text{ mA}$	$I_R = 250 \text{ mA}$			400		nS
Ι _L	I _F = 0 mA	P _{IN} = 1.0 mW	F = 10 GHz			0.5	dB
I	I _F = 100 mA	$P_{IN} = 1.0 \text{ mW}$	F = 10 GHz	20			dB
SWR	$I_F = 0 \text{ mA}$	$P_{IN} = 1.0 \text{ mW}$	F = 10 GHz			1.5:1	

NOTE: The **ASI 5082-3040** was designed to be a single piece hermetic replacement for the **HP 5082-3040** 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.

ADVANCED SEMICONDUCTOR, INC.