

MICROSTRIP/STRIPLINE PIN DIODE SWITCH

DESCRIPTION:

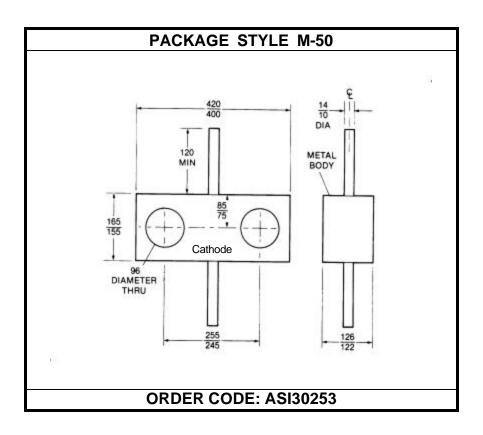
The **5082-3041** is a Silicon PIN Diode Module Designed for Reflective Attenuator and Switching Applications from 1 GHz to 18 GHz.

FEATURES INCLUDE:

- Direct Replacement for HP 5082-3041
- Isolation = 20 dB min. at 8 GHz
- Hermetic Package

MAXIMUM RATINGS

I _F	250 mA				
V_{R}	70 V				
P _{DISS}	1 W @ $T_C = 25$ $^{\circ}C$				
TJ	-65 °C to +125 °C				
T _{STG}	-65 ^O C to +125 ^O C				
q Jc	100 °C/W				



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu A$			70			V
V_{F}	I _F = 100 mA					1.0	V
t	I _F = 10 mA	I _R = 6 mA			35		mS
Ι _L	I _F = 0 mA	P _{IN} = 0 dBm	F = 8 GHz			1.0	dB
Ι _L	I _F = 20 mA	P _{IN} = 0 dBm	F = 8 GHz	20			dB
V _{SWR}	$I_F = 0 \text{ mA}$	$P_{IN} = 0 dBm$	F = 8 GHz			1.5:1	

NOTE: The **ASI 5082-3041** was designed to be a single piece hermetic replacement for the **HP 5082-3041** 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.