



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				

PACKAGE STYLE M-50 420 400 10 DIA 120 METAL MIN BODY 85 75 165 155 Anode 96 DIAMETER THRU 255 245 126 122 **ORDER CODE: ASI30415**

CHARACTERISTICS T_C = 25 °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		nS
١	$I_F = 0 \text{ mA}$	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.

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