AP300A-00

SILICON PIN DIODE CHIP

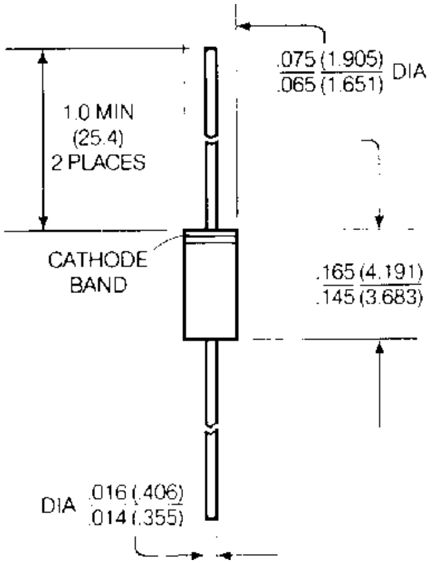
DESCRIPTION:

The **AP300A-00** is a Passivated Epitaxial Silicon PIN Diode Housed in a Hermetically Sealed Glass Package. This Device is Designed to Cover a Wide Range of Control Applications Such as RF Switching,Phase Shifting, Modulation, Duplexing Limiting and Pulse Forming.

MAXIMUM RATINGS

I_F	100 mA
V_R	300 V
P_{DISS}	250 mW @ T_A = 25 ^{O}C

PACKAGE STYLE 01



CHARACTERISTICS T_C = 25 ^{O}C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I_R = 10 µA	300			V
C_J	V_R = 50 V f = 1.0 MHz V_R = 40 V			0.2	pF
R_S	I_F = 50 mA f = 100 MHz			0.6	Ohms
T_L	I_F = 10 mA I_R = 6.0 mA		1000		nS
T_{rr}	I_F = 20 mA I_R = 100 mA		100		nS
O_R	THERMAL RESISTANCE			20	^{O}C/W