

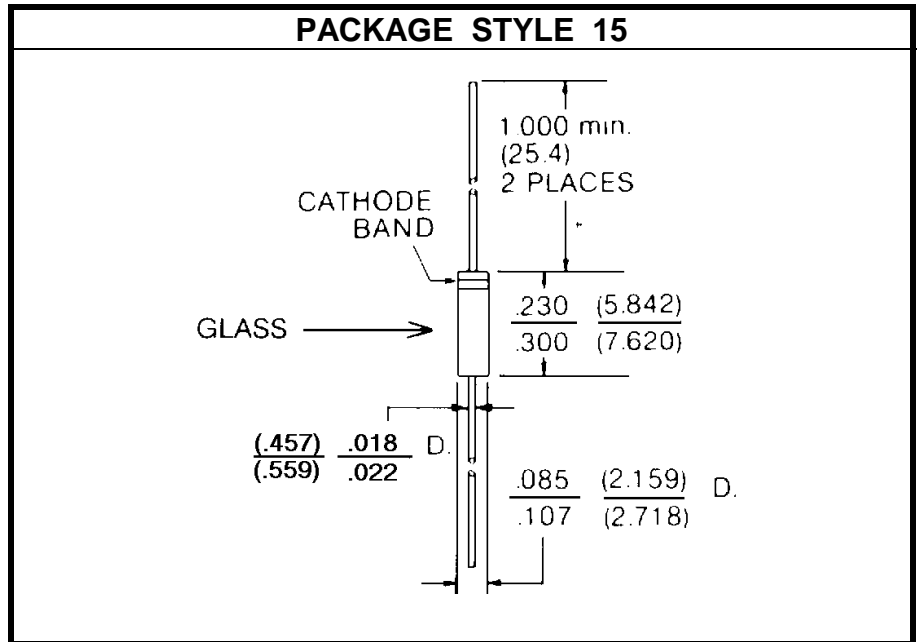
SILICON PIN DIODE

DESCRIPTION:

The **AP700D** is a Diffused Epitaxial Silicon PIN diode.

MAXIMUM RATINGS

I_C	100 mA
V_{CE}	70 V
P_{DISS}	500 mW @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+150^\circ C$
T_{STG}	$-65^\circ C$ to $+175^\circ C$
T_{SOLD}	$200^\circ C$
θ_{JC}	$50^\circ C/W$


CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_B	$I_R = 10 \mu A$	70			V
C_J	$V_R = 6.0 V$ $f = 1.0 MHz$			0.3	pF
R_S	$I_F = 20 mA$ $f = 1.0 GHz$ $I_F = 100 mA$			1.2 1.0	Ohms
T_L	$I_F = 10 mA$ $I_R = 6.0 mA$		50		nS
T_S	10%-90% / 90%-10%			5.0	nS
C_P	$f = 1.0 MHz$		0.15		PF
L_S			2.5		nH