

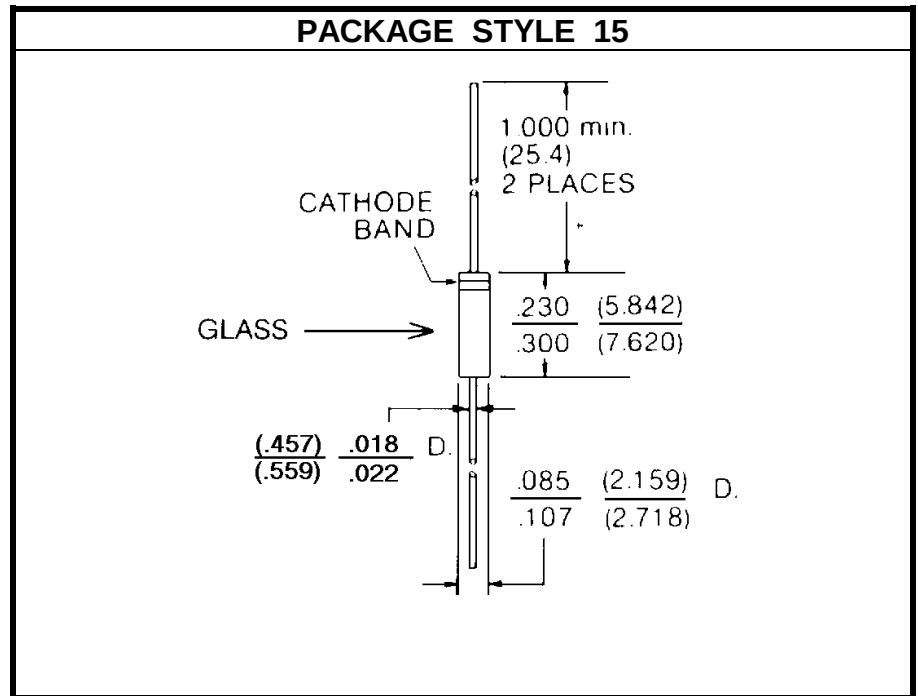
SILICON PIN DIODE

DESCRIPTION:

The **AP700C** is a Diffused Epitaxial Silicon PIN diode.

MAXIMUM RATINGS

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



CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_B	$I_R = 10 \mu\text{A}$	70			V
C_J	$V_R = 6.0 \text{ V}$ $f = 1.0 \text{ MHz}$			0.20	pF
R_S	$I_F = 20 \text{ mA}$ $f = 1.0 \text{ GHz}$ $I_F = 100 \text{ mA}$			1.7 1.5	Ohms
T_L	$I_F = 10 \text{ mA}$ $I_R = 6.0 \text{ mA}$		50		nS
T_S	10%-90% / 90%-10%			5.0	nS
C_P	$f = 1.0 \text{ MHz}$		0.15		PF
L_S			2.5		nH