

FAST SWITCHING PIN DIODE

DESCRIPTION:

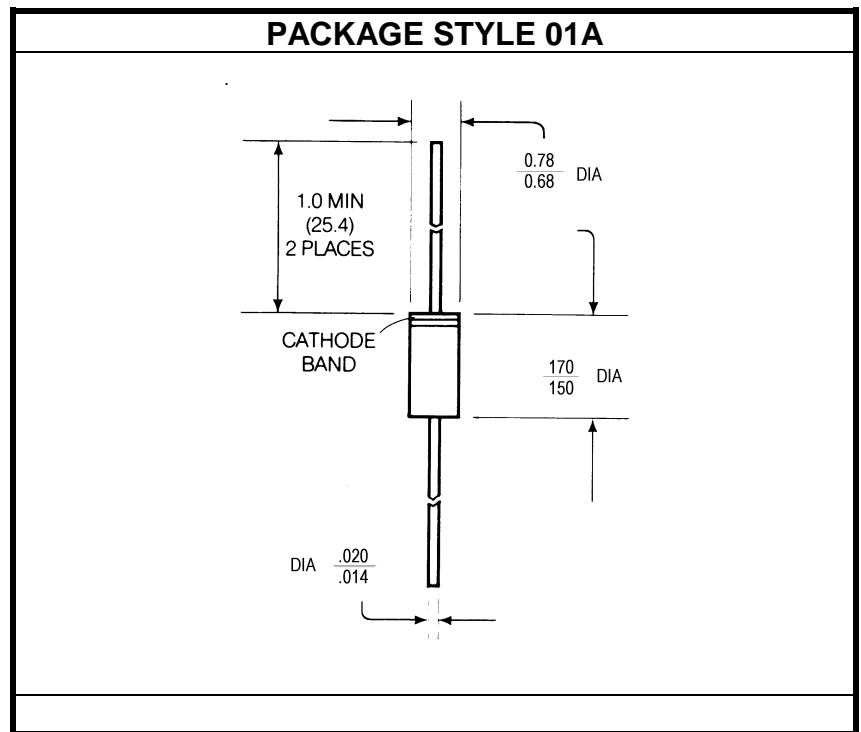
The **ASI 5082-3042** is a Switching Diode Designed for low power Applications such as RF duplexers, antenna switching matrices, and time multiplex filters.

FEATURES INCLUDE:

- Low series resistance
- Low capacitance
- Hermetic Glass Package

MAXIMUM RATINGS

I_F	100 mA
V_R	70 V
P_{DISS}	250 mW @ $T_C = 25\text{ }^{\circ}\text{C}$
T_J	-65 $^{\circ}\text{C}$ to +200 $^{\circ}\text{C}$
T_{STG}	-65 $^{\circ}\text{C}$ to +150 $^{\circ}\text{C}$
θ_{JC}	0.6 $^{\circ}\text{C}/\text{mW}$



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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10\text{ }\mu\text{A}$		70			V
C_T	$V_R = 20\text{ V}$	$f = 1.0\text{ MHz}$			0.4	pF
R_S	$I_F = 20\text{ mA}$	$f = 100\text{ MHz}$			1.0	Ω
τ	$I_F = 10\text{ mA}$	$I_R = 6.0\text{ mA}$		35		nS
t_{rr}	$V_R = 10\text{ V}$	$I_F = 20\text{ mA}$			5.0	nS