

# FAST SWITCHING PIN DIODE

**DESCRIPTION:**

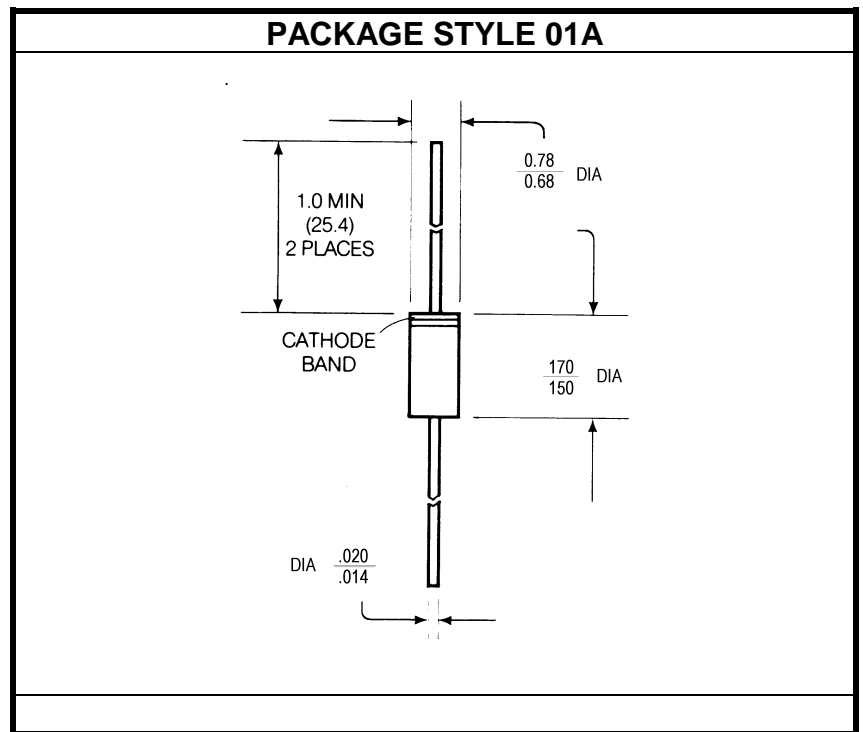
The **ASI 5082-3042** is a Switching Diode Designed for low power Applications such as RF duplexers, antenna switching matrices, and time multiplex filters.

**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 $^\circ\text{C}$
$\theta_{JC}$	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
$C_T$	$V_R = 20\text{ V}$ <span style="margin-left: 100px;"><math>f = 1.0\text{ MHz}</math></span>			0.4	pF
$R_S$	$I_F = 20\text{ mA}$ <span style="margin-left: 100px;"><math>f = 100\text{ MHz}</math></span>			1.0	$\Omega$
$\tau$	$I_F = 10\text{ mA}$ <span style="margin-left: 50px;"><math>I_R = 6.0\text{ mA}</math></span>		35		nS
$t_{rr}$	$V_R = 10\text{ V}$ <span style="margin-left: 50px;"><math>I_F = 20\text{ mA}</math></span>			5.0	nS