

# GLASS PACKAGE STEP RECOVERY DIODE

## DESCRIPTION:

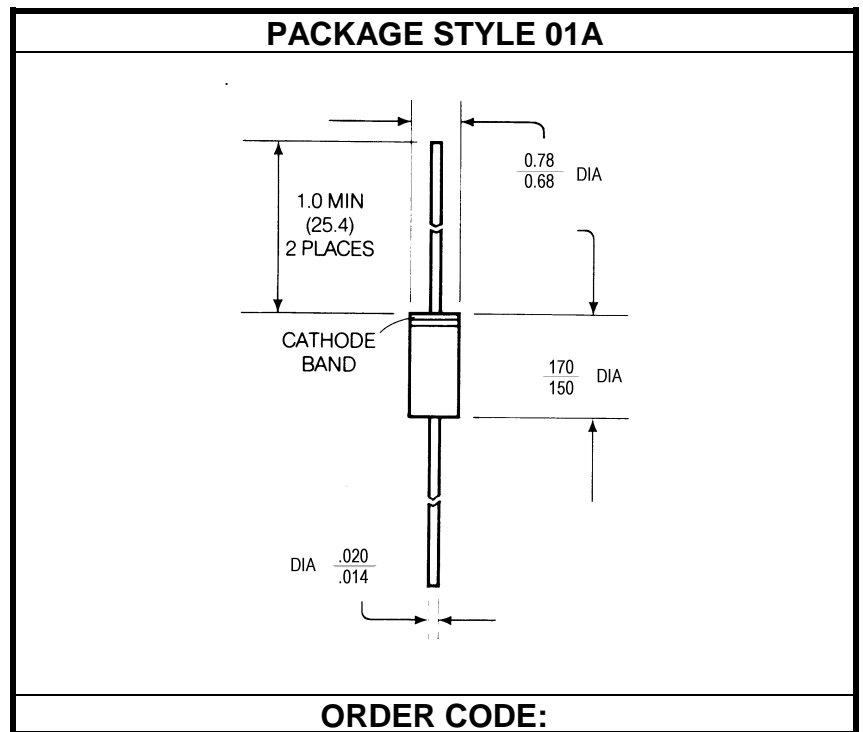
The **ASI 5082-0180** is a Silicon Step Recovery Diode Designed for Synthesiser and Sampler Applications Requiring a High Performance to Cost Ratio.

## FEATURES INCLUDE:

- Transition Time **250 pS** Typical
- Hermetic Glass Package

## MAXIMUM RATINGS

$I_F$	50 mA
$V_R$	50 V
$P_{DISS}$	290 mW @ $T_C = 25\text{ }^\circ\text{C}$
$T_J$	-65 to +200 $^\circ\text{C}$
$T_{STG}$	-65 to +200 $^\circ\text{C}$
$\theta_{JC}$	0.6 $^\circ\text{C}/\text{mW}$



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10\text{ }\mu\text{A}$	50			V
$C_J$	$V_R = 10\text{ V}$ <span style="margin-left: 150px;"><math>f = 1.0\text{ MHz}</math></span>			4.45	pF
$\tau$	$I_F = 10\text{ mA}$ <span style="margin-left: 50px;"><math>I_R = 6.0\text{ mA}</math></span>	100			nS
$T_t$	$V_R = 7.0\text{ V}$ <span style="margin-left: 50px;"><math>I_F = 3.0\text{ mA}</math></span>			225	pS