

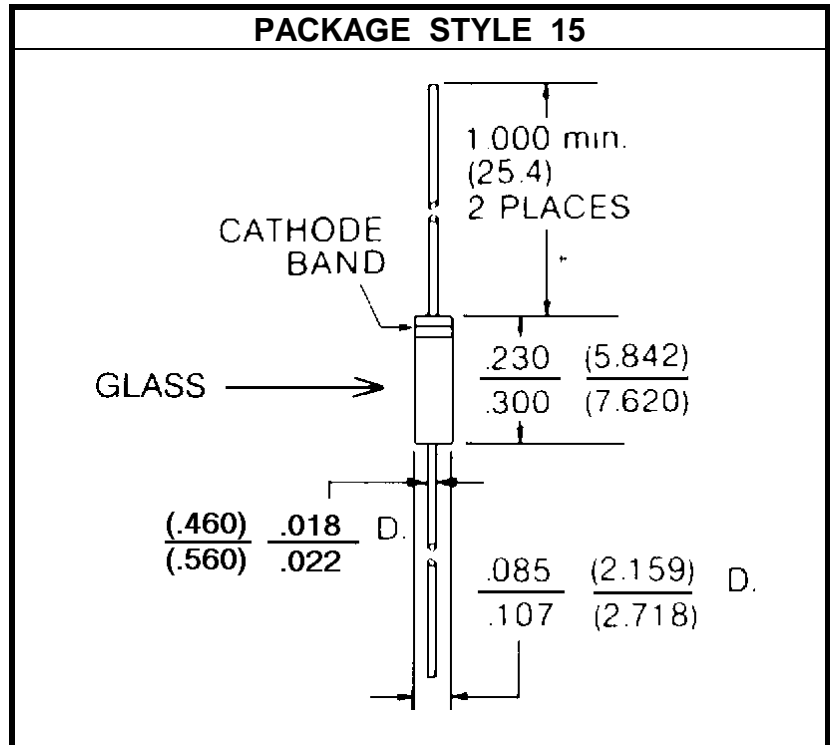
# MEDIUM BARRIER SCHOTTKY DIODE

**DESCRIPTION:**

The **ASI 5082-2350** is a Silicon Small Signal Schottky Diode for General Purpose UHF/VHF Detection and Pulse Applications. Color Band Indicates Cathode.

**MAXIMUM RATINGS**

<b>I<sub>F</sub></b>	100 mA
<b>V<sub>R</sub></b>	30 V
<b>P<sub>DISS</sub></b>	100 mW @ T <sub>A</sub> = 25 °C
<b>T<sub>J</sub></b>	-60 °C to +100 °C
<b>T<sub>STG</sub></b>	-60 °C to +200 °C
<b>θ<sub>JC</sub></b>	750 °C/W


**CHARACTERISTICS** T<sub>C</sub> = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>V<sub>BR</sub></b>	I <sub>R</sub> = 10 μA	30			<b>V</b>
<b>I<sub>R</sub></b>	V <sub>R</sub> = 15 V			500	<b>nA</b>
<b>V<sub>F</sub></b>	I <sub>F</sub> = 100 mA			0.5	<b>V</b>
<b>C<sub>J</sub></b>	V <sub>R</sub> = 0 V f = 1.0 MHz			0.9	<b>pF</b>
<b>NF</b> <b>SWR</b>	LO Power = 1.0 mW IF = 30 MHz NF = 1.5 dB Zero DC Load Resistance			7.5 1.5:1	<b>dB</b> <b>---</b>
<b>Z<sub>IF</sub></b>	LO Power = 1.0 mW IF = 10 KHz NF = 1.5 dB Zero DC Load Resistance	150		250	<b>Ω</b>