

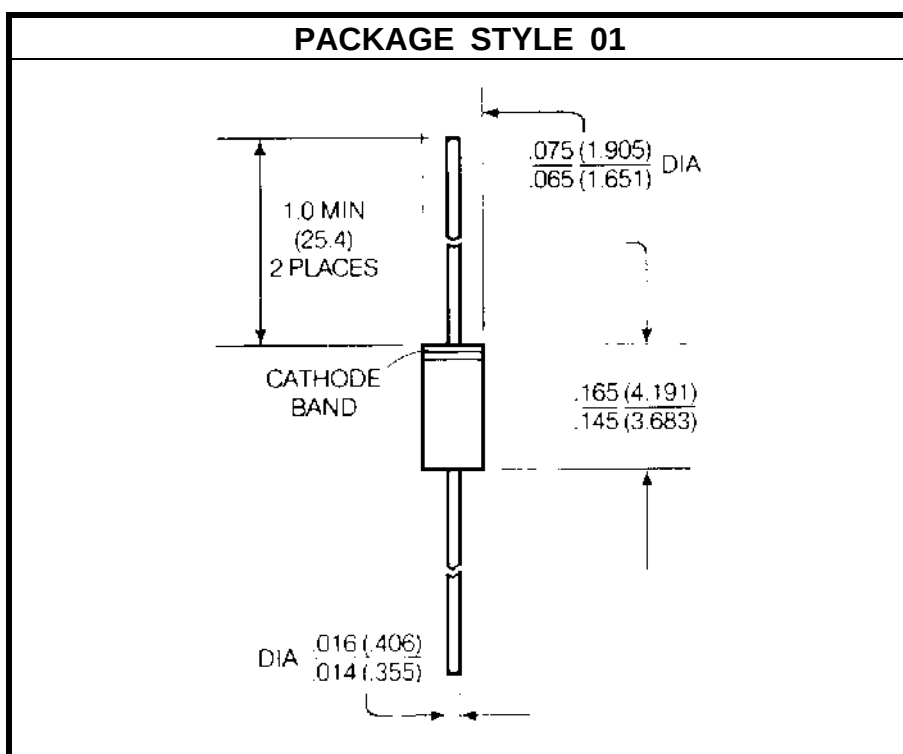
# SCHOTTKY BARRIER DIODE

## DESCRIPTION:

The **ASI 5082-2787** is a Silicon Small Signal Schottky Diode Designed for UHF/VHF Mixers, and Video Detector Applications. Color Band Indicates Cathode. RF Parameters are Sample Tested.

## MAXIMUM RATINGS

|                         |                                 |
|-------------------------|---------------------------------|
| <b>I</b>                | 10 mA                           |
| <b>V</b>                | 4.0 V                           |
| <b>P<sub>DISS</sub></b> | 100 mW @ T <sub>A</sub> = 25 °C |
| <b>T<sub>J</sub></b>    | -60 °C to +150 °C               |
| <b>T<sub>STG</sub></b>  | -60 °C to +150 °C               |
| <b>T<sub>SOLD</sub></b> | t = 5.0 Sec. +260 °C            |



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

| SYMBOL          | TEST CONDITIONS                  |                         |            | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|-----------------|----------------------------------|-------------------------|------------|---------|---------|---------|-------|
| V <sub>R</sub>  | I <sub>R</sub> = 10 μA           |                         |            | 4.0     |         |         | V     |
| C <sub>J0</sub> | V <sub>R</sub> = 0 V f = 1.0 MHz |                         |            |         | 0.12    |         | pF    |
| T <sub>SS</sub> | f = 10 GHz                       |                         |            |         |         | -52     | dBm   |
| R <sub>V</sub>  | P = -40 dBm                      | R <sub>L</sub> = 100 KΩ | f = 10 GHz | 1.2     |         | 1.8     | KW    |
| g               | P = -40 dBm                      | R <sub>L</sub> = 100 KΩ | f = 10 GHz | 3.5     |         |         | mV/mW |