

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** BA779-HG3-08

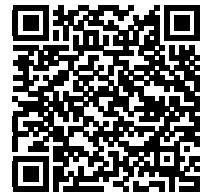
**Manufacturer:** Vishay General Semiconductor - Diodes Division

**Package:** TO-236-3, SC-59, SOT-23-3

**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/vishay-general-semiconductor-diodes-division/ba779-hg3-08.html>



Scan for product page

### Request a Quote:

[Submit RFQ for this part](#)

## Contact Information

Email: [info@antrexco.com](mailto:info@antrexco.com)

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## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

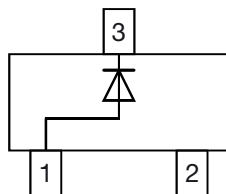
### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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## RF PIN Diodes



**DESIGN SUPPORT TOOLS** click logo to get started



### FEATURES

- Wide frequency range 10 MHz to 1 GHz
- AEC-Q101 qualified
- Base P/N-HG3 - green, automotive grade
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



### APPLICATIONS

- Current controlled HF resistance in adjustable attenuators

### MECHANICAL DATA

**Case:** SOT-23

**Weight:** approx. 8.1 mg

**Packaging codes/options:**

08/3K per 7" reel (8 mm tape), 15K/box

### PARTS TABLE

| PART    | ORDERING CODE | TYPE MARKING | CIRCUIT CONFIGURATION | REMARKS       |
|---------|---------------|--------------|-----------------------|---------------|
| BA779-G | BA779-HG3-08  | PH1          | Single                | Tape and reel |

### ABSOLUTE MAXIMUM RATINGS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

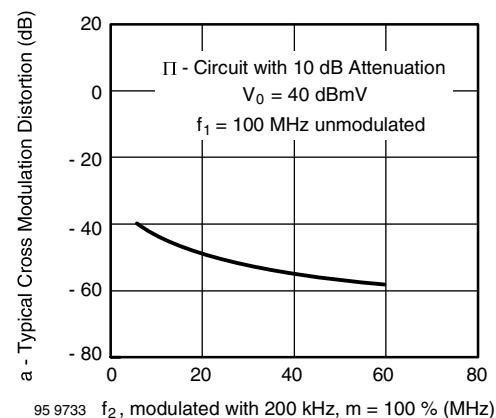
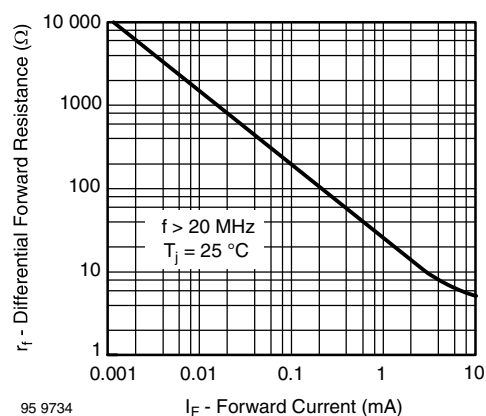
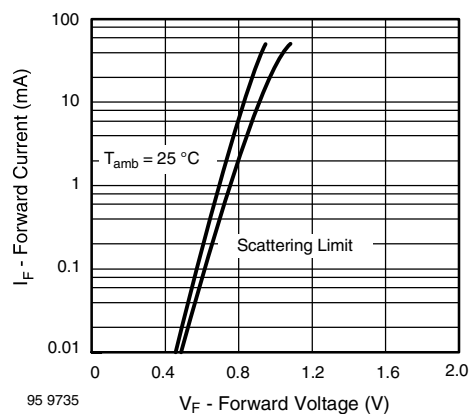
| PART                       | TEST CONDITION | SYMBOL | VALUE | UNIT |
|----------------------------|----------------|--------|-------|------|
| Reverse voltage            |                | $V_R$  | 30    | V    |
| Forward continuous current |                | $I_F$  | 50    | mA   |

### THERMAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

| PARAMETER                                  | TEST CONDITION                        | SYMBOL     | VALUE       | UNIT               |
|--------------------------------------------|---------------------------------------|------------|-------------|--------------------|
| Thermal resistance junction to ambient air | on PC board<br>50 mm x 50 mm x 1.6 mm | $R_{thJA}$ | 500         | K/W                |
| Junction temperature                       |                                       | $T_j$      | 125         | $^{\circ}\text{C}$ |
| Storage temperature range                  |                                       | $T_{stg}$  | -55 to +150 | $^{\circ}\text{C}$ |
| Operating temperature range                |                                       | $T_{op}$   | -55 to +125 | $^{\circ}\text{C}$ |

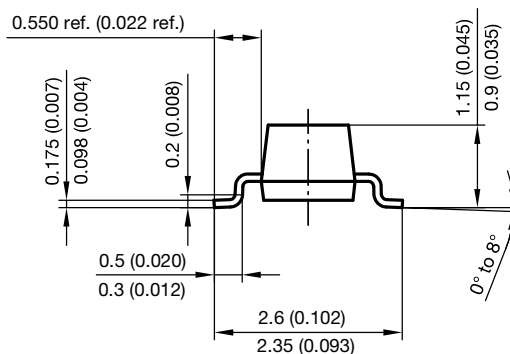
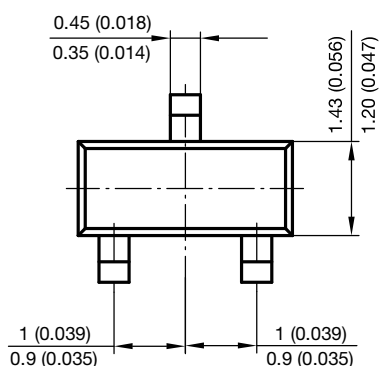
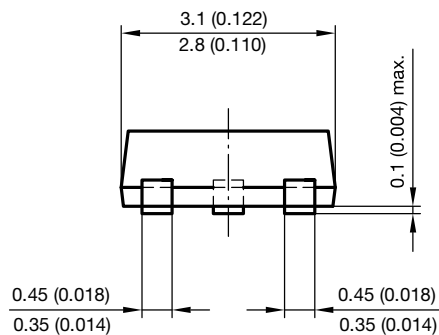
### ELECTRICAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)

| PARAMETER                       | TEST CONDITION                               | PART    | SYMBOL | MIN. | TYP. | MAX. | UNIT          |
|---------------------------------|----------------------------------------------|---------|--------|------|------|------|---------------|
| Forward voltage                 | $I_F = 20\text{ mA}$                         |         | $V_F$  |      |      | 1    | V             |
| Reverse current                 | $V_R = 30\text{ V}$                          |         | $I_R$  |      |      | 0.05 | $\mu\text{A}$ |
| Diode capacitance               | $f = 100\text{ MHz}$ , $V_R = 0\text{ V}$    |         | $C_D$  |      |      | 0.5  | pF            |
| Differential forward resistance | $f = 100\text{ MHz}$ , $I_F = 1.5\text{ mA}$ |         | $r_f$  |      |      | 50   | $\Omega$      |
| Reverse impedance               | $f = 100\text{ MHz}$ , $V_R = 0\text{ V}$    | BA779-G | $z_r$  | 5    |      |      | k $\Omega$    |
| Minority carrier lifetime       | $I_F = 10\text{ mA}$ , $I_R = 10\text{ mA}$  |         | $\tau$ |      | 4    |      | $\mu\text{s}$ |

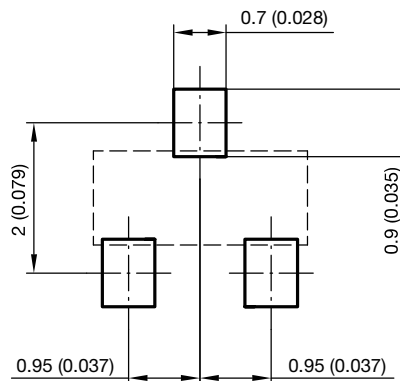
**TYPICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)




**PACKAGE DIMENSIONS** in millimeters (inches): **SOT-23**



Foot print recommendation:





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