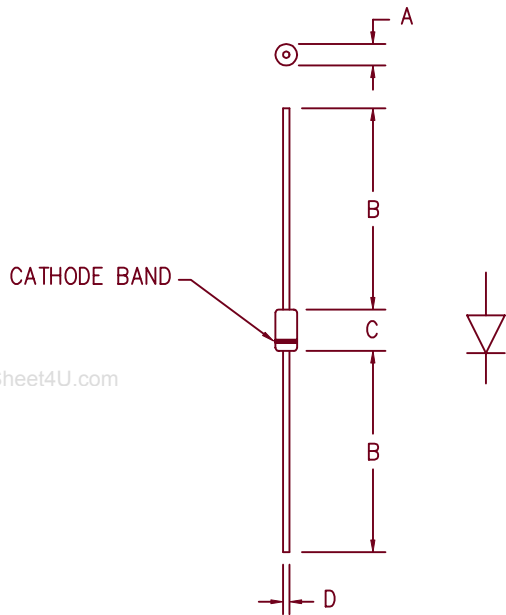


# Ultra Fast Recovery Rectifiers UF330 — UF350



| Dim. | Inches  |         | Millimeter |         | Notes |
|------|---------|---------|------------|---------|-------|
|      | Minimum | Maximum | Minimum    | Maximum |       |
| A    | .188    | .260    | 4.78       | 6.50    | Dia.  |
| B    | 1.00    | ---     | 25.4       | ---     |       |
| C    | .285    | .375    | 7.24       | 9.52    |       |
| D    | .046    | .056    | 1.17       | 1.42    | Dia.  |

PLASTIC D0201AD

| Microsemi Catalog Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|--------------------------|------------------------------|---------------------------------|
| UF330                    | 300V                         | 300V                            |
| UF340                    | 400V                         | 400V                            |
| UF350                    | 500V                         | 500V                            |

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 300 to 500 Volts
- 3 Amp Current Rating
- $t_{RR}$  50 ns Max.

| Electrical Characteristics   |                             |  |
|------------------------------|-----------------------------|--|
| Average forward current      | I <sub>F(AV)</sub> 3.0 Amps | T <sub>A</sub> = 115°C, Square wave, R <sub>θJL</sub> = 17°C/W, L = 1/8" |
| Average forward current      | I <sub>F(AV)</sub> 3.0 Amps | T <sub>A</sub> = 95°C, Square wave, R <sub>θJL</sub> = 23°C/W = 3/8"     |
| Maximum surge current        | I <sub>FSM</sub> 100 Amps   | 8.3ms, half sine, T <sub>J</sub> = 175°C                                 |
| Max peak forward voltage     | V <sub>FM</sub> 1.1 Volts   | I <sub>FM</sub> = 3.0A; T <sub>J</sub> = 25°C*                           |
| Max reverse recovery time    | t <sub>RR</sub> 50 ns       | 1/2A, 1A, 1/4A, T <sub>J</sub> = 25°C                                    |
| Max peak reverse current     | I <sub>RM</sub> 10 μA       | V <sub>RRM</sub> , T <sub>J</sub> = 25°C                                 |
| Typical junction capacitance | C <sub>J</sub> 16 pF        | V <sub>R</sub> = 10V, T <sub>J</sub> = 25°C                              |

\*Pulse test: Pulse width 300 μsec, Duty cycle 2%

| Thermal and Mechanical Characteristics |                           |                                  |
|--|---------------------------|----------------------------------|
| Storage temperature range              | T <sub>STG</sub>          | -55°C to 175°C                   |
| Operating junction temp range          | T <sub>J</sub>            | -55°C to 175°C                   |
| Maximum thermal resistance             | L = 1/8" R <sub>θJL</sub> | 17°C/W Junction to Lead          |
|  | L = 3/8" R <sub>θJL</sub> | 23°C/W Junction to Lead          |
| Weight                                 |                           | .011 ounces (0.34 grams) typical |

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# UF330 – UF350

Figure 1  
Typical Forward Characteristics

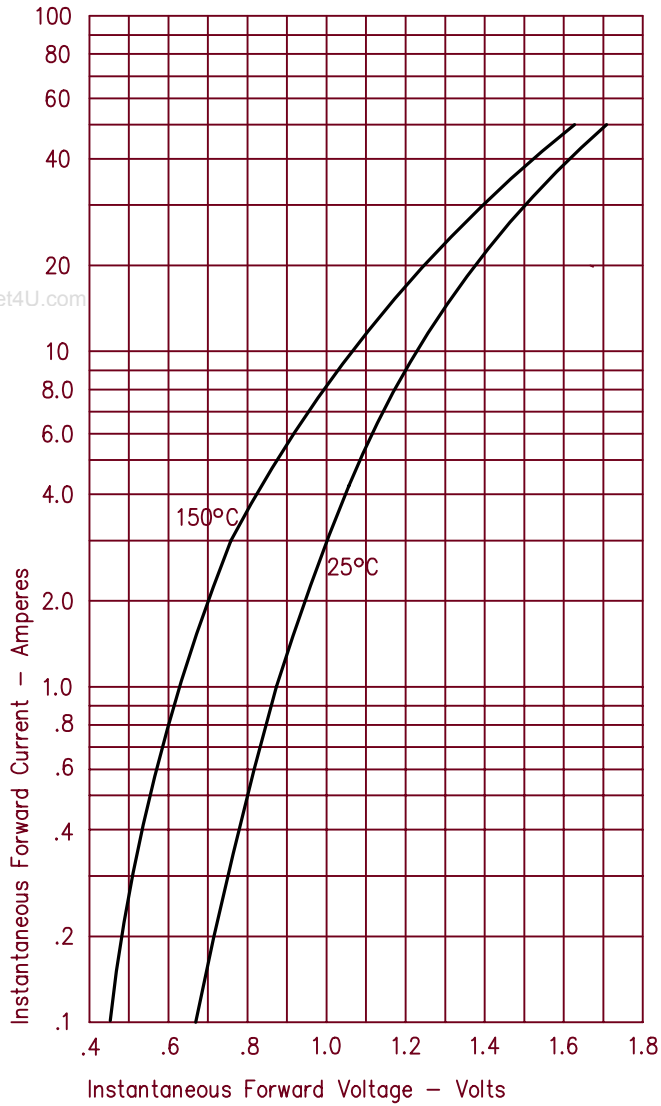


Figure 3  
Typical Junction Capacitance

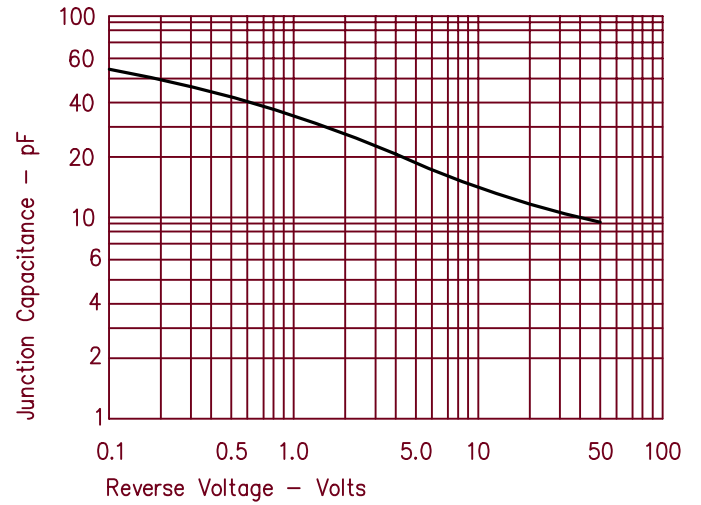


Figure 2  
Typical Reverse Characteristics

