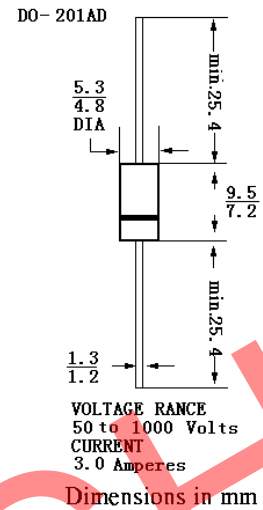


R30A THRU R30M

FAST SILICON RECTIFIERS

Features

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost



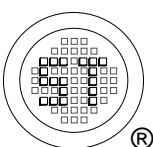
Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| | R30A | R30B | R30D | R30G | R30J | R30K | R30M | Units |
|---|-------------|------|------|------|------|------|------|-------|
| Maximum Recurrent Peak Reverse Voltage* | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage* | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage* | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current 0.375", 9.5 mm Lead Length at T _A = 60 °C | 3 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave | 150 | | | | | | | A |
| Maximum Forward Voltage at 3A Peak | 1.3 | | | | | | | V |
| Maximum DC Reverse Current, at Rated DC Blocking Voltage | 5 | | | | | | | uA |
| Maximum Full Load Reverse Current , Full Cycle Average, 0.375" , (9.5 mm) Lead Length at T _A = 55 °C | 50 | | | | | | | uA |
| Typical Junction Capacitance (Note 1) | 65 | | | | | | | pF |
| Maximum Reverse Recovery Time (Note 2) | 150 | 150 | 150 | 150 | 250 | 500 | 500 | ns |
| Operating and Storage Temperature Range | -65 to +175 | | | | | | | °C |

Notes:

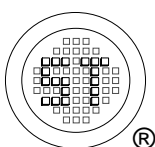
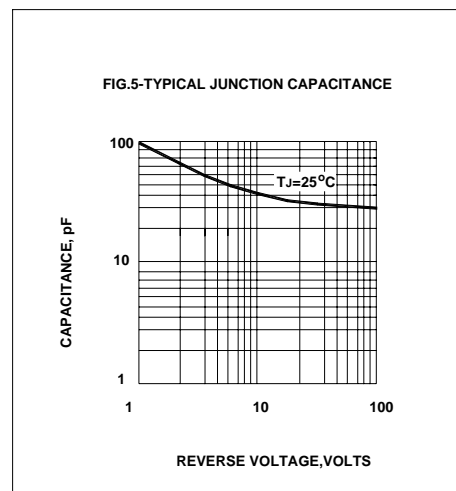
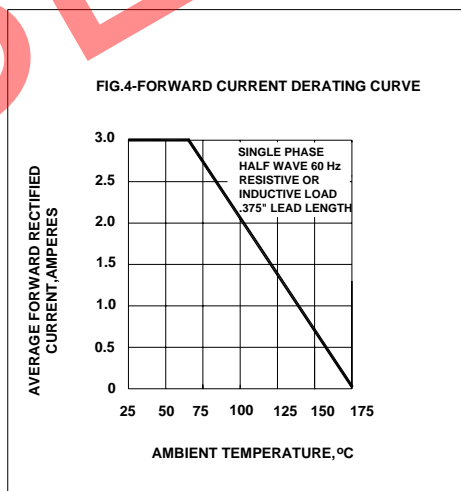
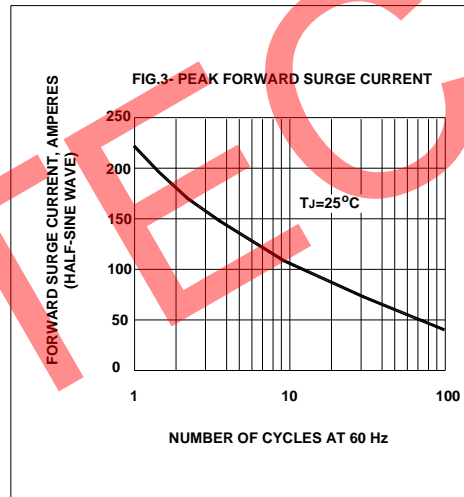
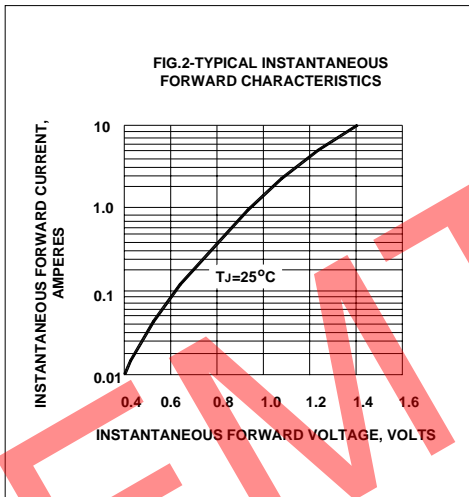
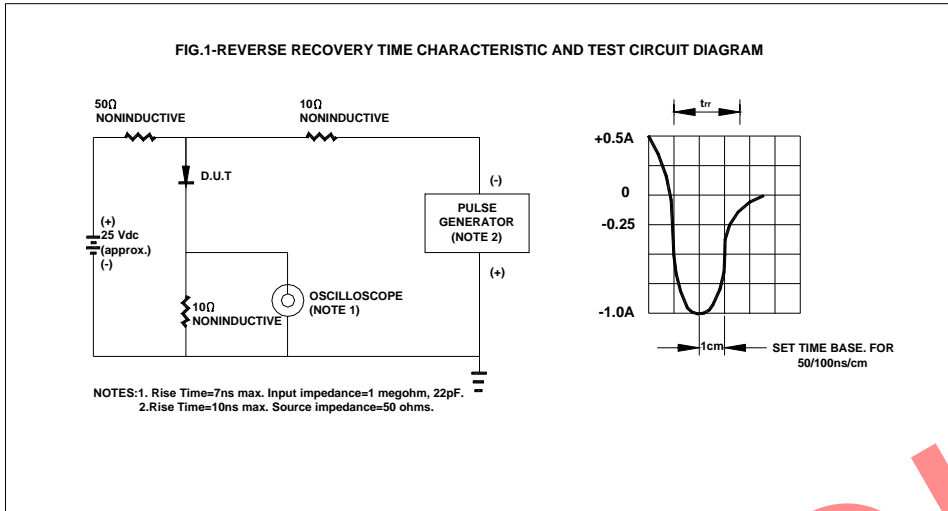
1. Measured at 1 MHz and applied reverse voltage of 4 V_{DC}.
2. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1A, I_{rr} = 0.25A



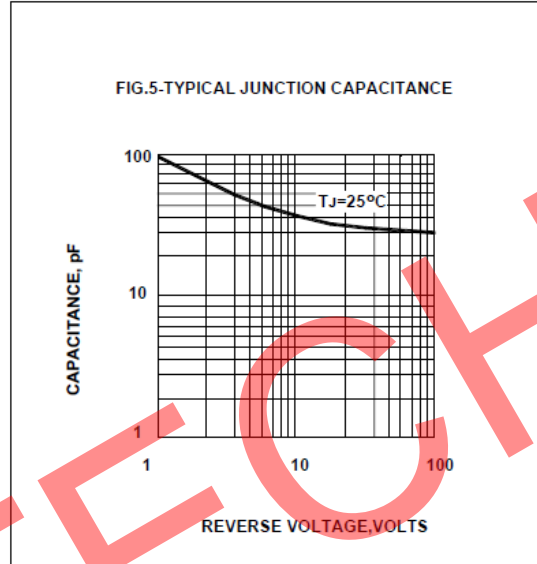
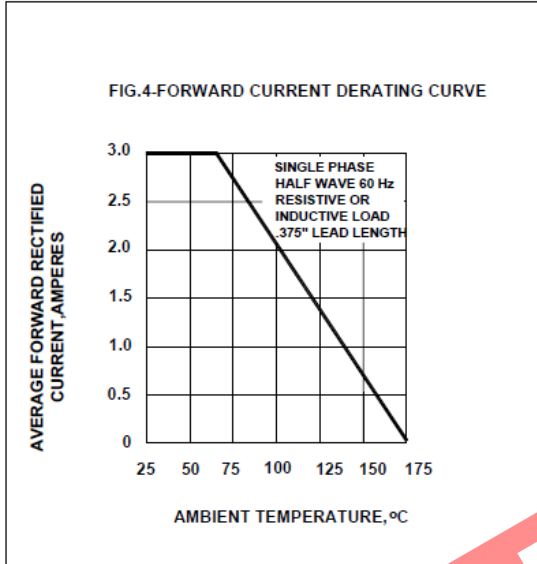
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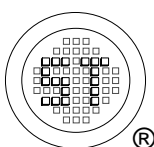
Dated : 11/11/2002



R30A THRU 30M



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Dated : 11/11/2002