

Technical Data

DIODE



maximum ratings

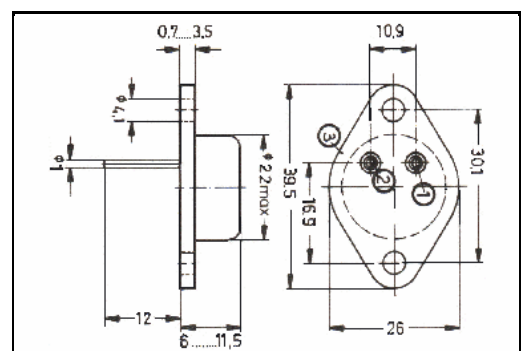
| | | | | |
|---|-------|------|------|-----------------|
| Voltage, Reverse (VZ) | 27.0 | V | NO. | 1N2822RB |
| Voltage, Reverse Peak (VRM) | | V | TYPE | 50W-ZENER |
| Current at VR = 0V (IO) | | A | | |
| Current Average Rectified (IF) | | A | | |
| Current Surge Peak (IZM) | 1.5 | A | CASE | TO-3 |
| Current, Surge (IFM) at tp = | | A | | CATHODE-TO-CASE |
| Max. Power Dissipation (PT) at TC = 75 °C | 50.0 | W | | |
| Max. Thermal Resistance (Rth J-C) | 2.0 | °C/W | | |
| Max. Junction Temperature (TJ) | 175.0 | °C | | |

PERFORMANCE CHARACTERISTICS at $T_c = 25^\circ\text{C}$, unless otherwise noted

| NO. | SYMBOL | CONDITIONS | MIN. | MAX. | UNITS |
|-----|--------|--|-------|-------|-------|
| 1. | VF | IF = 10.0 A (1) | - | 1.5 | V |
| 2. | VZ | IZ = 460.0 mA, tp = 100.0 μs, dc = 0.1 % | 25.65 | 28.35 | V |
| 3. | IR | VR = 20.6 V | - | 5.0 | μA |
| 4. | RZ | IZ = 460.0 mA, Δ IZ = 10.0 % IZ, f = 1.0 kHz | - | 2.8 | Ω |
| 5. | RZ | IZ = 5.0 mA | - | 90.0 | Ω |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | - | 1 = ANODE | 0.0 | 0.0 | - |
| 19. | - | 2 = ANODE | 0.0 | 0.0 | - |
| 20. | - | 3 = CATHODE | 0.0 | 0.0 | - |

Notes (1) pulse-tested tp ≤ 300 μs, duty cycle ≤ 2 %

DIMENSIONS
in mm



Marking 1N2822RB
Customer GENERAL PURPOSE