# Technical Data
# DIODE

DISCRETE SEMICONDUCTOR INDUSTRIES

## maximum ratings

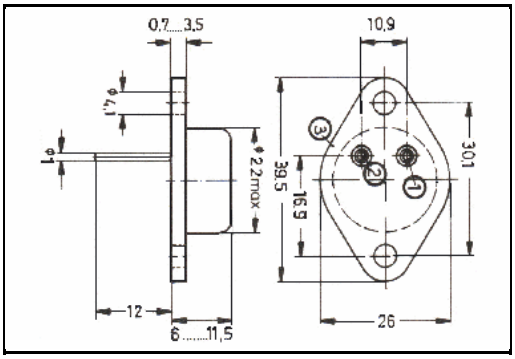
| | | | | |
|---|---|---|---|---|
| Voltage, Reverse (VZ) | 36.0 | V | NO. | 1N2825B-M |
| Voltage, Reverse Peak (VRM) | | V | TYPE | 50W-ZENER |
| Current at VR = OV (IO) | | A | | |
| Current Average Rectified (IF) | | A | | |
| Current Surge Peak (IZM) | 1.15 | A | CASE | TO-3 |
| Current, Surge (IFM) at tp = | | A | | ANODE TO CASE |
| Max. Power Dissipation (PT) at TC = 75 °C | 50.0 | W | | MIL-S-19500+BI |
| Max. Thermal Resistance (Rth J-C) | 2.0 | °C/W | | |
| Max. Junction Temperature (TJ) | 175.0 | °C | | |

## PERFORMANCE CHARACTERISTICS at $T_C$ = 25°C, unless otherwise noted

| NO. | SYMBOL | CONDITIONS | MIN. | MAX. | UNITS |
|---|---|---|---|---|---|
| 1. | VF | IF = 10.0 A (1) | - | 1.5 | V |
| 2. | VZ | IZ = 350.0 mA, tp = 100.0 µs, dc = 0.1% | 34.2 | 37.8 | V |
| 3. | IR | VR = 27.4 V | - | 5.0 | µA |
| 4. | RZ | IZ = 350.0 mA, Δ IZ = 10.0% IZ, f = 1.0 kHZ | - | 3.5 | Ω |
| 5. | RZ | IZ = 5.0 mA | - | 90.0 | Ω |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | - | 1 = CATHODE | 0.0 | 0.0 | - |
| 19. | - | 2 = CATHODE | 0.0 | 0.0 | - |
| 20. | - | 3 = ANODE | 0.0 | 0.0 | - |

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

DIMENSIONS in mm




Marking 1N2825B-M + GREEN DOT

Customer GENERAL PURPOSE