

Technical Data

DIODE



maximum ratings

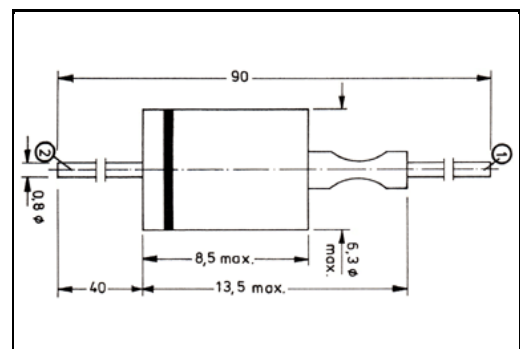
| | | | | |
|---|-------|------|------|------------|
| Voltage, Reverse (VBR) | 7.5 | V | NO. | 1N5630A |
| Voltage, Reverse Peak (VRM) | 11.3 | V | TYPE | SUPPRESSOR |
| Current at VR = 0V (IO) | | A | | |
| Current Average Rectified (IF) | | A | | |
| Current, Surge Peak (IPM) | 132.0 | A | CASE | DO-13 |
| Current, Surge (IFM) at tp = 8.3 ms | 200.0 | A | | |
| Max. Power Dissipation (PT) at TA = 75 °C | 1.0 | W | | |
| Max. Thermal Resistance (Rth J-A) | 100.0 | °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. | IR | VR = 6.4 V | - | 0.5 | mA |
| 2. | VBR | IR = 10.0 mA | 7.13 | 7.88 | V |
| 3. | VF | IF = 1.0 A (1) | - | 1.5 | V |
| 4. | PBR | tp = 1.0 ms | - | 1.5 | kW |
| 5. | VCL | IP = 132.0 A, tp = 1.0 ms | - | 11.3 | V |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |

Notes (1) pulse-tested $t_p \leq 300 \mu\text{s}$, duty cycle $\leq 2\%$

DIMENSIONS
in mm



Marking 1N5630A
Customer GENERAL PURPOSE