



DISH AVALANCHE AUTOMOTIVE RECTIFIER

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|---------|-------------------|----------------|
| ADRS30Z | AVALANCHE VOLTAGE | 24 to 32 Volts |
| ADR30Z | CURRENT | 30 Amperes |

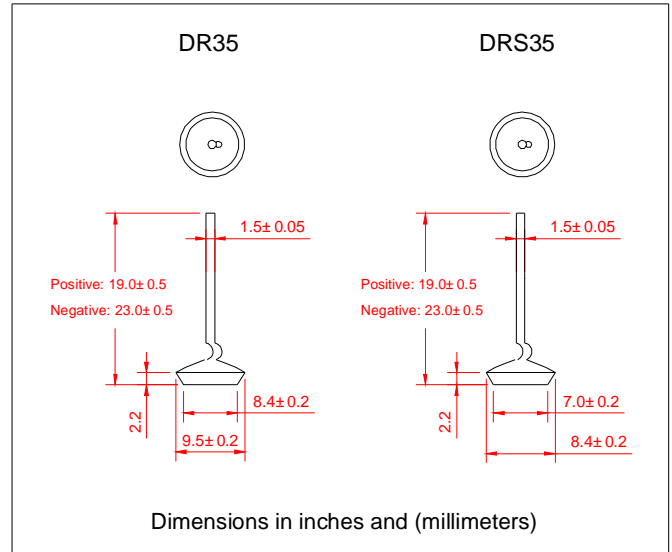
Technical Specification:

Features:

- High power capability
- Economical
- Avalanche Voltage: 24V to 32V
- Glass passivated chip

MECHANICAL DATA

- Case: Copper case
- Epoxy: UL94-0 rate flame retardant
- Polarity: As marked of case bottom
- Technology cell vacuum soldered
- Lead: Plated slug, solderable per MIL-STD-202E Method 208C
- Weight: 0.032 ounce 0.9 Grams (ADRS)
0.035 ounce 1.0 Grams (ADR)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| | | ADRS30L/ADR30L | | | |
|--|----------------|----------------|---------|------|-------|
| Electrical Characteristics @ 25°C | SYMBOLS | MIN | NOMINAL | MAX | UNITS |
| Peak Repetitive Reverse Voltage | V_{RRM} | 20 | | | Volts |
| Working Peak Reverse Voltage | V_{RRM} | 20 | | | |
| DC Blocking Voltage | V_{DC} | 20 | | | |
| Average Rectified Forward Current ($T_c=125^\circ C$) | I_o | 30 | | | Amps |
| Repetitive Peak Reverse Surge Current $T_c=10\text{msec}$ Duty Cycle < 1% | I_{RSM} | 30 | | | Amps |
| Breakdown Voltage ($V_{br}@I_r=100\text{mA}$, $T_c=25^\circ C$) | V_{br1} | 24 | 25-27 | 32 | Volts |
| $I_r=90\text{Amps}$, $T_c=150^\circ C$, $PW=80\text{usec}$ | V_{br2} | | | 40 | Volts |
| Forward Voltage Drop @ $I_f=100\text{Amps}$ < 300usec | V_F | | 1.05 | 1.10 | Volts |
| Peak Forward Surge Current | I_{FSM} | | 400 | | Amps |
| Reverse Leakage ($V_R=17\text{Vdc}$) $T_A=25^\circ C$ | I_R | | 1.0 | 2.0 | uAmps |
| Operating and Storage Junction Temperature Range | T_J, T_{STG} | -65 to +175 | | | °C |

Notes: 1. Enough heatsink must be considered in application.

