



DISH AUTOMOTIVE RECTIFIER

DR351 THRU DR356
DRS351 THRU DRS356

VOLTAGE RANGE 100 to 400 Volts

CURRENT 35.0 Amperes

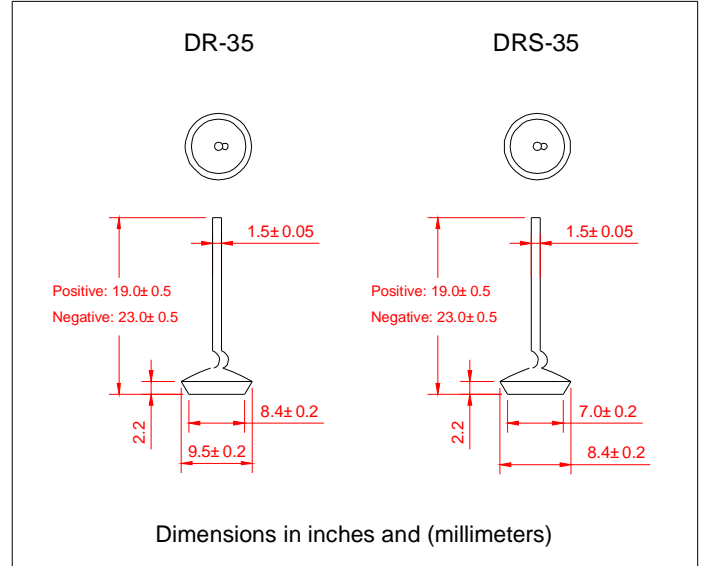
TECHNICAL SPECIFICATION:

FEATURES

- Low Leakage
- Low forward voltage drop
- High current capability
- High forward surge current capacity
- Glass passivated chip

MECHANICAL DATA

- Technology: vacuum soldered
- Case: Copper case
- Polarity: As marked of case bottom
- Lead: Plated Ni lead, solderable per MIL-STD-202E method 208C
- Weight: 0.032 ounces, 0.9 grams (DRS)
0.035 ounces, 1.0 grams (DR)



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%

| | SYMBOLS | DR351 DRS351 | DR352 DRS352 | DR353 DRS353 | DR354 DRS354 | DR356 DRS356 | UNIT |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | 300 | 400 | 600 | Volts |
| Maximum RMS Voltage | V_{RMS} | 70 | 140 | 210 | 280 | 420 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 300 | 400 | 600 | Volts |
| Maximum Average Forward Rectified Current, At $T_c=105^\circ\text{C}$ | I_O | 35 | | | | | Amps |
| Peak Forward Surge Current 3.3mS single half sine wave superimposed on Rated load (JEDEC method) | I_{FSM} | 500 | | | | | Amps |
| Rating for fusing ($t < 8.3\text{ms}$) | I^2t | 1038 | | | | | A^2S |
| Maximum instantaneous Forward Voltage at 100A | V_F | 1.08 | | | | | Volts |
| Maximum DC Reverse Current at Rated $T_A=25^\circ\text{C}$ DC Blocking Voltage $T_A=100^\circ\text{C}$ | I_R | 5.0 | | | | | UA |
| | | 450 | | | | | |
| Typical Thermal Resistance | $R_{\theta JC}$ | 0.8 | | | | | $^\circ\text{C}/\text{W}$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | (-65 to +175) | | | | | $^\circ\text{C}$ |

Notes:

1. Enough heatsink must be considered in application.



DISH AUTOMOTIVE RECTIFIER

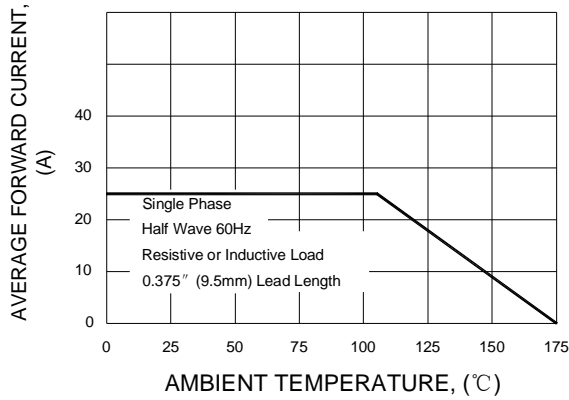
DR351 THRU DR356
DRS351 THRU DRS356

VOLTAGE RANGE 100 to 400 Volts
CURRENT 35.0 Amperes

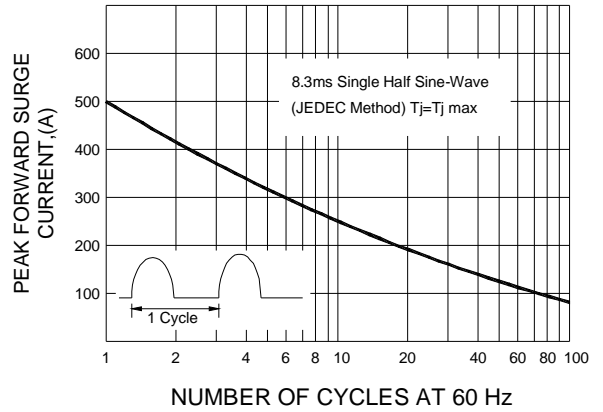
RATINGS AND CHARACTERISTIC CURVES

DR351 THRU DR356
DRS351 THRU DRS356

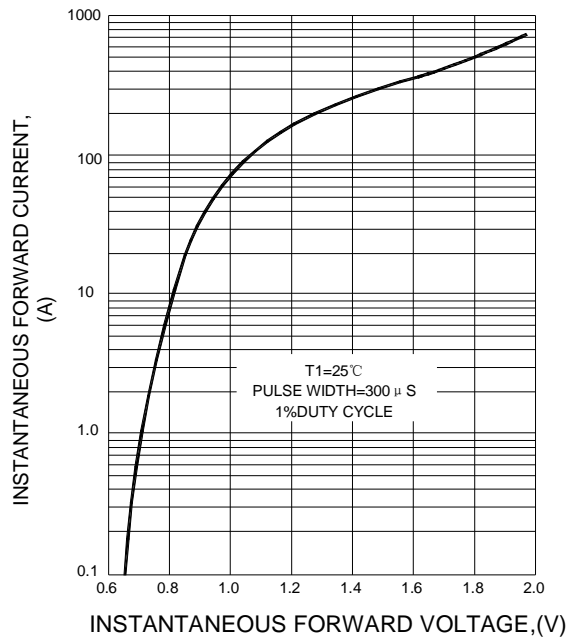
F1G.1 TYPICAL FORWARD CURRENT DERATING CURVE



F1G.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4 FORWARD POWER DISSIPATION

