

T4ARS3505M THRU T4ARS3507M

TRANSIENT VOLTAGE SUPPRESSORS GPP BRIDGE RECTIFIER VOLTAGE RANGE 600 to 1000 Volts CURRENT 35 Amperes

FEATURES

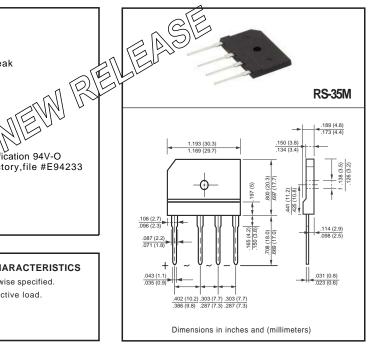
- * Low leakage
- * Low forward voltage
- * Surge overload rating : 300 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O * UL list the recognized component directory,file #E94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

For capacitive load, derate current by 20%.

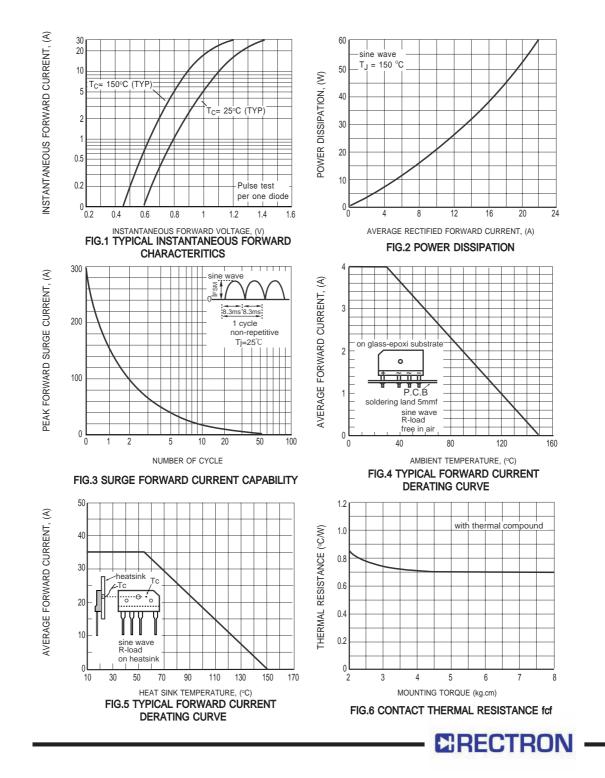
| RATINGS | SYMBOL | T4ARS3505M | T4ARS3506M | T4ARS3507M | UNITS |
|--|------------------|--------------|------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at T _C = 55°C (With Heat-sink) | IO | 35 | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 300 | | | |
| Peak Power Dissipation at T _A =25°C,T _P =1mS (Note 1) | PPPM | Maximum 400 | | | |
| Breakdown Voltage Range at I _T =1mA | VBR | 380 ~ 420 | | | |
| Maximum Peak Pulse Current | IPPM | 0.73 | | | |
| Maximum Clamping Voltage at IPPM =0.73A | V _C | 548 | | | Volts |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to + 150 | | | ۰C |

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | T4ARS3505M | T4ARS3506M | T4ARS3507M | UNITS |
|---|-------------------------|----------------|------------|------------|------------|-------|
| Maximum Instantaneous Forward Voltage at 17.5A DC | | VF | 1.1 | | Volts | |
| | @T _A = 25°C | l _R | 5.0 | | | uAmps |
| | @T _A = 100°C | | 200 | | | |

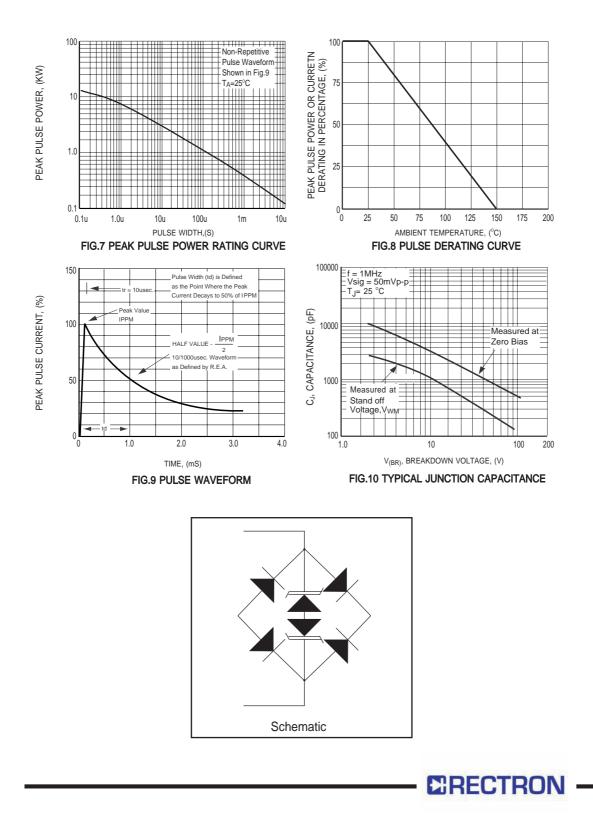
NOTES : 1. Non-repetitive current pulse, per Fig.8 and derated above $T_{A}{=}25^{\circ}\text{C}$ per Fig.7. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2007-7



RATING AND CHARACTERISTICS CURVES (T4ARS3505M THRU T4ARS3507M)





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