

T4ARS3505M THRU T4ARS3507M

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

### FEATURES

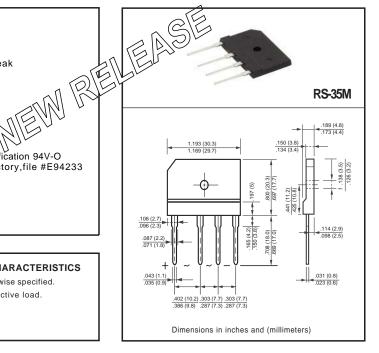
- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating : 300 amperes peak
- \* Mounting position: Any
- \* Ideal for printed circuit boards
- \* High forward surge current capability

### 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%.

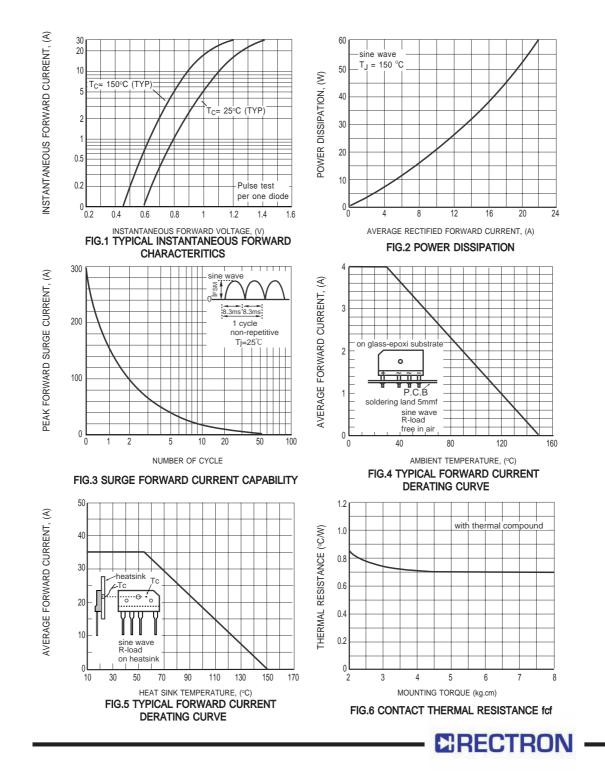
RATINGS	SYMBOL	T4ARS3505M	T4ARS3506M	T4ARS3507M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 55°C (With Heat-sink)	IO	35			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	300			
Peak Power Dissipation at T <sub>A</sub> =25°C,T <sub>P</sub> =1mS (Note 1)	PPPM	Maximum 400			
Breakdown Voltage Range at I <sub>T</sub> =1mA	VBR	380 ~ 420			
Maximum Peak Pulse Current	IPPM	0.73			
Maximum Clamping Voltage at IPPM =0.73A	V <sub>C</sub>	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 <sub>A</sub> = 25°C	l <sub>R</sub>	5.0			uAmps
	@T <sub>A</sub> = 100°C		200			

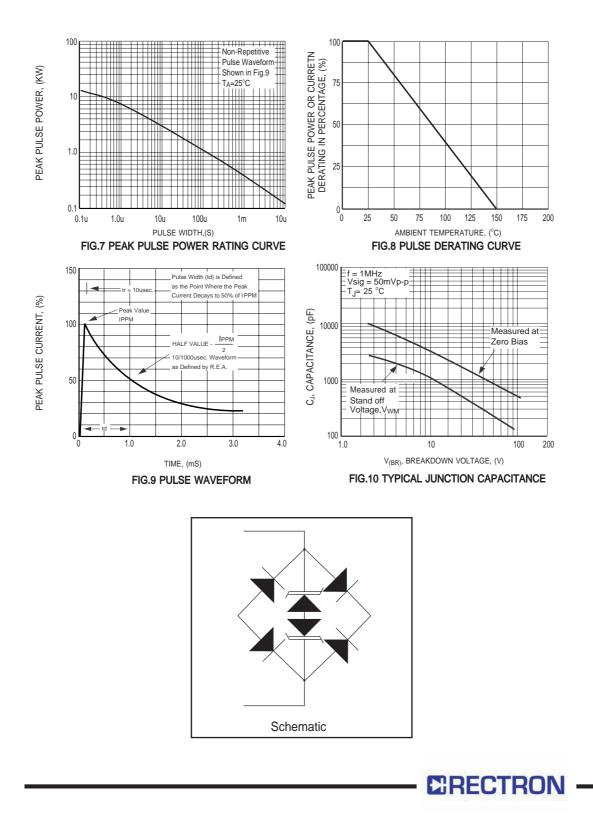
NOTES : 1. Non-repetitive current pulse, per Fig.8 and derated above  $T_{A}{=}25^{\circ}\text{C}$  per Fig.7. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2007-7



# RATING AND CHARACTERISTICS CURVES (T4ARS3505M THRU T4ARS3507M)





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