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35 AMP OVERVOLTAGE TRANSIENT SUPPRESSORS

FEATURES MECHANICAL SPECIFICATION • PROPRIETARY SOFT GLASS[®] JUNCTION PASSIVATION FOR SUPERIOR RELIABILITY AND Die Size: PERFORMANCE Color Ring 0.180" x 0.180" **Denotes Cathode** Square **VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION** D • Large die for high power capability Very low forward voltage drop M٠ Increased capacity by parallel operation Protects expensive automotive electronics and F в mobile equipment **MECHANICAL DATA** Case: Molded Epoxy (UL Flammability Rating 94V-O) MILLIMETERS **INCHES** Finish: All external surfaces are silver plated for corrosion DIM MIN MAX MIN MAX resistance superior solderability 8.69 Α 8.43 0.332 0.342 Soldering Temperature: 250 °C maximum В 5.94 6.25 0.234 0.246 Mounting Position: Any D 5.46 5.71 0.215 0.225 0.165 0.175

- · Polarity: Color band denotes cathode
- Weight: 0.6 Ounces (1.8 Grams)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

F

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4.19

4.45

5° NOM

5° NOM

Ratings at 25 $^\circ \rm C$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz resistive or inductive load.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS	UNITS
Series Number		TVS3527S	
Maximum Recurrent Peak Reverse Voltage	Vrrm	23 24 Min / 32 Max	VOLTS
Working Peak Reverse Voltage	Vrwm		
Maximum DC Blocking Voltage	VDC		
Breakdown Voltage (IR = 100 mA dc, Tc = 25 °C)	V(BR)		
Average Forward Rectified Current	lo	35	
Non-repetitive Peak Forward Surge Current (Half wave, single phase, 60 Hz sine applied to rated load)	Ігѕм	600	AMPS
Repetitive Peak Reverse Surge Current (Time Constant = 10 mSec Duty Cycle ≤ 1.0%, Tc = 25 °C)	IRSM	110	
Instantaneous Forward Voltage Maximum (IF = 100A @ 300 μ Sec pulse, Tc = 25°C) Typical	VF	1.05 1.00	VOLTS
Maximum DC Reverse Current (VR = 20V DC, Tc = 25 °C)	IR	200	nA
Maximum Thermal Resistance, Junction to Case (Note 1)	Rejc	0.8	°C/W
Junction Operating & Storage Temperature Range	Тј,Тѕтс	-65 to +175	°C

Notes: 1) Single Side Cooled