

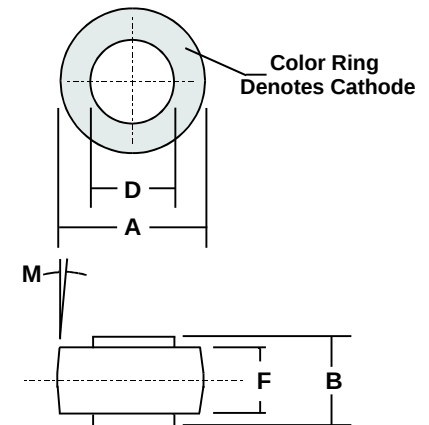


35 AMP OVERVOLTAGE TRANSIENT SUPPRESSORS

FEATURES

- PROPRIETARY **SOFT GLASS®** JUNCTION PASSIVATION FOR SUPERIOR RELIABILITY AND PERFORMANCE
- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION
- Large die for high power capability
- Very low forward voltage drop
- Increased capacity by parallel operation
- Protects expensive automotive electronics and mobile equipment

Die Size:
0.180" x 0.180"
Square



MECHANICAL DATA

- Case: Molded Epoxy (UL Flammability Rating 94V-0)
- Finish: All external surfaces are silver plated for corrosion resistance superior solderability
- Soldering Temperature: 250 °C maximum
- Mounting Position: Any
- Polarity: Color band denotes cathode
- Weight: 0.6 Ounces (1.8 Grams)

**SOFT GLASS®
DIODE**

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.43	8.69	0.332	0.342
B	5.94	6.25	0.234	0.246
D	5.46	5.71	0.215	0.225
F	4.19	4.45	0.165	0.175
M	5° NOM		5° NOM	

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °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	VOLTS
Working Peak Reverse Voltage	VRWM		
Maximum DC Blocking Voltage	VDC		
Breakdown Voltage (IR = 100 mA dc, Tc = 25 °C)	V(BR)	24 Min / 32 Max	
Average Forward Rectified Current	Io	35	AMPS
Non-repetitive Peak Forward Surge Current (Half wave, single phase, 60 Hz sine applied to rated load)	IFSM	600	
Repetitive Peak Reverse Surge Current (Time Constant = 10 mSec Duty Cycle ≤ 1.0%, Tc = 25 °C)	IRSM	110	
Instantaneous Forward Voltage (If = 100A @ 300 μSec pulse, Tc = 25°C)	VF	1.05	VOLTS
Maximum DC Reverse Current (VR = 20V DC, Tc = 25 °C)		1.00	
Maximum DC Reverse Current (VR = 20V DC, Tc = 25 °C)	IR	200	nA
Maximum Thermal Resistance, Junction to Case (Note 1)	RθJC	0.8	°C/W
Junction Operating & Storage Temperature Range	TJ, TSTG	-65 to +175	°C

Notes: 1) Single Side Cooled

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