MECHANICAL SPECIFICATION

Die Size:

0.250" Dia.

Round



75 AMP OVERVOLTAGE TRANSIENT SUPPRESSORS

FEATURES

- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION (Solder Voids: Typical ≤ 2%, Max. ≤ 10% of Die Area)
- LARGE DIE FOR HIGH POWER HEAVY DUTY PERFORMANCE
- HIGH HEAT HANDLING CAPABILITY WITH VERY LOW THERMAL STRESS
- PROPRIETARY JUNCTION PASSIVATION FOR SUPERIOR RELIABILITY AND PERFORMANCE
- LOW FORWARD VOLTAGE DROP

MECHANICAL DATA

- Case: Molded Epoxy (UL Flammability Rating 94V-0)
- Finish: All external surfaces are silver plated for corrosion resistance superior solderability
- Soldering Temperature: 210 °C maximum
- Mounting Position: Any
- Polarity: Color band denotes cathode
- Weight: 0.06 Ounces (1.8 Grams)

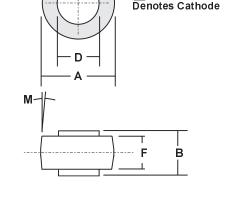
MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS	UNITS	
Series Number		TVS7527S		
Maximum Recurrent Peak Reverse Voltage	Vrrm		VOLTS	
Working Peak Reverse Voltage	Vrwm	23		
Maximum DC Blocking Voltage	VDC			
Breakdown Voltage (IR = 100 mA dc, Tc = 25 °C)	V(BR)	24 Min / 32 Max		
Average Forward Rectified Current	lo	75		
Non-repetitive Peak Forward Surge Current (Half wave, single phase, 60 Hz sine applied to rated load)	IFSM	800	AMPS	
Repetitive Peak Reverse Surge Current (Time Constant = 10 mSec Duty Cycle < 1.0%, Tc = 25 °C)	IRSM	150		
Instantaneous Forward Voltage Maximum (I⊧ = 100A@ 300 µSecpulse, Tc = 25°C) Typical	VF	1.05 1.00	VOLTS	
Maximum DC Reverse Current (Vr = 20V DC, Tc = 25 °C)	lR	200	'nΑ	
Maximum Thermal Resistance, Junction to Case (Note 1)	Rejc	0.8	°C/W	
Junction Operating & Storage Temperature Range	TJ,TSTG	-65 to +175	°C	

Notes: 1) Single Side Cooled





Color Ring

DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	8.43	8.69	0.332	0.342	
В	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	
М	5° NOM		5° NOM		