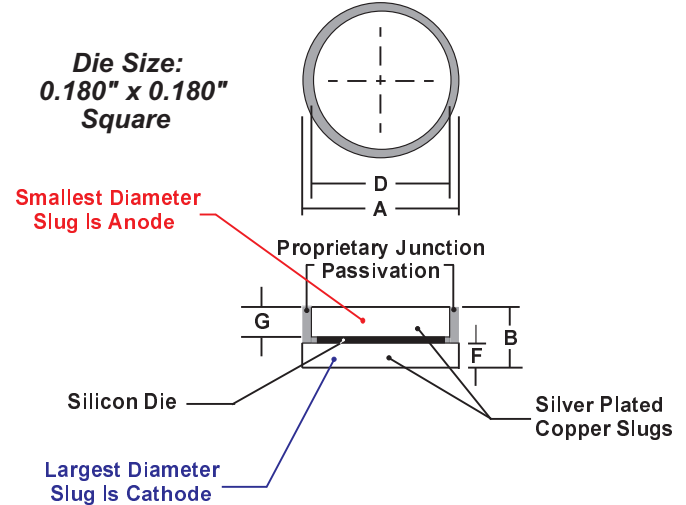


35 AMP OVERVOLTAGE TRANSIENT DISH DIODE

FEATURES

- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION (Solder Voids: Typical $\leq 2\%$, Max. $\leq 10\%$ 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 SPECIFICATION



MECHANICAL DATA

- Finish: All external surfaces are silver plated for corrosion resistance superior solderability
- Soldering Temperature: 210 °C maximum
- Mounting Position: Any
- Weight: 0.06 Ounces (1.8 Grams)

BIPOLAR ALSO AVAILABLE

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	5.41	5.51	0.213	0.217
B	1.95	2.05	0.077	0.081
D	4.77	4.87	0.188	0.192
F	0.64	0.76	0.025	0.030
G	0.96	1.09	0.038	0.043

RoHS COMPLIANT

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS	UNITS
Series Number		TVS3527D	
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)		
Average Rectified Forward Current (Single phase, Resistive load, 60 Hz)	Io	35	AMPS
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60 Hz sine applied to rated load)	IFSM	500	
Repetitive Peak Reverse Surge Current (Time constant = 10 mSec Duty cycle $\leq 1.0\%$, Tc = 25 °C)	IRSM	110	
Instantaneous Forward Voltage (IF = 80A @300 μ Sec pulse, Tc = 25°C)	V _F	1.05 1.00 (Typical)	VOLTS
Maximum DC Reverse Current (VR = 20V DC, Tc = 25 °C)	IR	200	nA
Maximum Thermal Resistance, Junction to Slug (Note 1)	R _{θJC}	0.8	°C/W
Junction Operating & Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Notes: 1) Single Side Cooled

3.01 tvs35d