



# CHENMKO ENTERPRISE CO.,LTD

**TVSF28AGP-A**

**GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR**

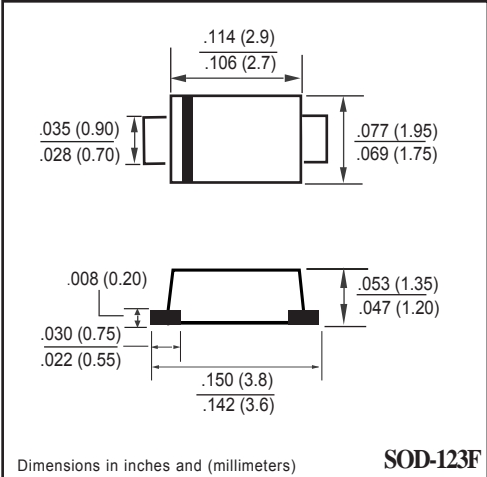
**VOLTAGE- 28 VOLTS**

**200 WATTS PEAK POWER 1.0 WATT STEADY STATE**

*Halogens free devices*

## FEATURES

- \* Plastic package
- \* 200W surge on 10/1000 uS waveform
- \* Glass passivated chip junction in SOD-123F Package
- \* Excellent clamping capability
- \* Low Zener Impedance
- \* Hightemperature soldering guaranteed:  
260oC/10seconds at terminals



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

## DEVICES FOR BIDIRECTIONAL APPLICATIONS

For Bidirectional use C or CA Suffix for types TVSF5.0AGP thru types TVSF190AGP  
Electrical characteristics apply in both directions.

## MAXIMUM RATINGS ( At Ta = 25°C unless otherwise noted )

RATINGS	SYMBOL	VALUE	UNITS
Peak Power Dissipation On 10/1000 uS Waveform	PPK	Minimum 200	Watts
Steady State Power Dissipation at TL = 75°C	Pd	1.0	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	20	Amps
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150	°C

## ELECTRICAL CHARACTERISTICS ( TVSF28AGP-A )

TYPE	Zener Voltage VZ (V) @ IZT			Test current	Working Peak Reverse Voltage	Maximum Reverse Leakage Current	Maximum Reverse Current	Maximum reverse Voltage @IRSM
	Min	Nom	Max	IZT(mA)				
	Volts	Volts	Volts		IZT(mA)	Vrwm(V)	IR(uA)	Irsm(A)
TVSF28AGP-A	31.1		34.4	1.0	28	5.0	4.41	45.4

## RATING CHARACTERISTIC CURVES ( TVSF28AGP-A )

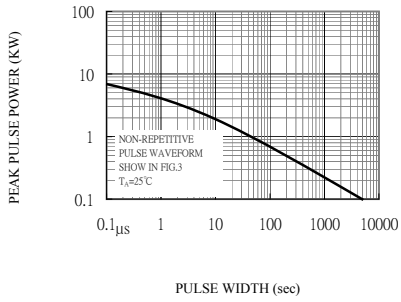


FIG. 1 - PEAK PULSE POWER RATING CURVE

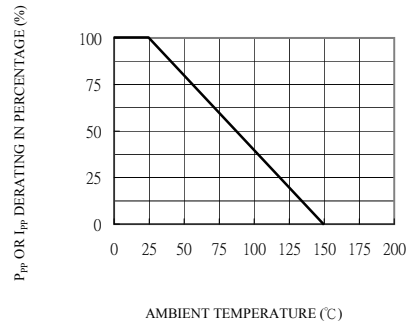


FIG. 2 - PULSE DERATING CURVE

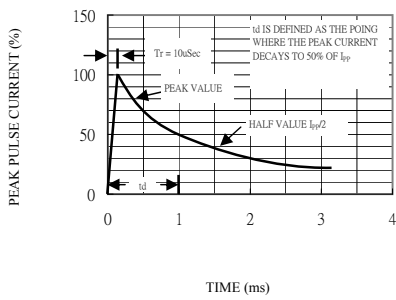


FIG. 3 - PULSE WAVEFORM

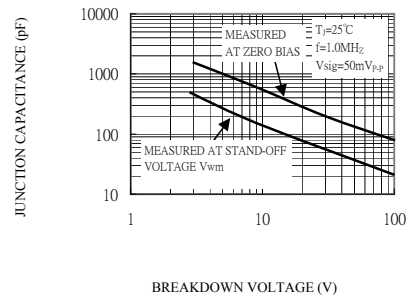


FIG. 4 - TYPICAL JUNCTION CAPACITANCE



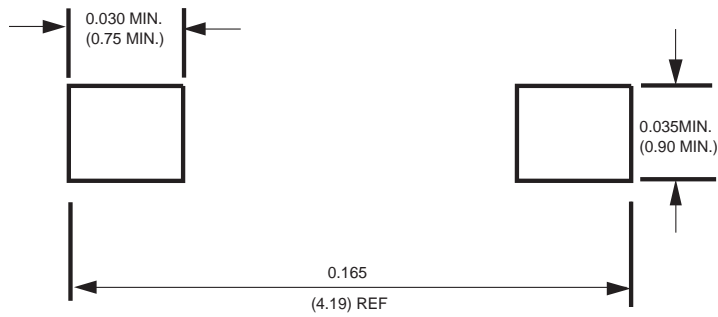
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**SURFACE MOUNT**  
**RECOMMENDED FOOT PRINT**

**SOD-123F**

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**Mounting Pad Layout**



Dimensions in inches and (millimeters)