

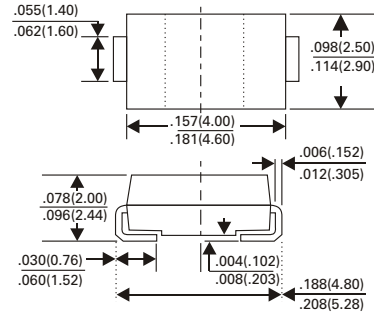
SMA4949A

SURFACE MOUNT ZENER TYPE

VOLTAGE 24V 2.0 Watts Surface Mount Zener Diode



SMA/DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- For surface mounted applications
- 2.0 W power dissipation
- Ideally suited for automated assembly processes

MECHANICAL DATA

Case: Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Terminals: Solderable per MIL-STD-750 method 2026

Polarity: Cathode band

Mounting position: Any

MAXIMUM RATINGS (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Rating 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOLS	VALUE	UNIT
Zener Current(see page1)	I_{ZM}	P_d / V_z	mA
Forward Voltage @ $I_F=200\text{mA}$	V_F	1.2	Volts
Max. Steady State Power Dissipation @ $T_L=100^{\circ}\text{C}$, Lead Length=1mm	P_d	2	W
Typical Thermal Resistnace(Note1)	R_{thjL}	20	$^{\circ}\text{C}/\text{W}$
	R_{thja}	80	
Operating Temperature Range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

NOTES:

1. Thermal Resistance Junction to Lead/Ambient.
2. The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$

ZENER 2W SERIES	Nominal Zener Voltage		Maximum Zener			Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z@I_{ZT}$	I_{ZT}	$ZZT@I_Z$	$ZZK@I_Z$	I_{ZK}	$I_R@V_R$		I_{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SMA4949	24	20.8	13	750	0.25	0.5	18.2	76

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FIG. 1- MAXIMUM CONTINUOUS POWER DISSIPATION

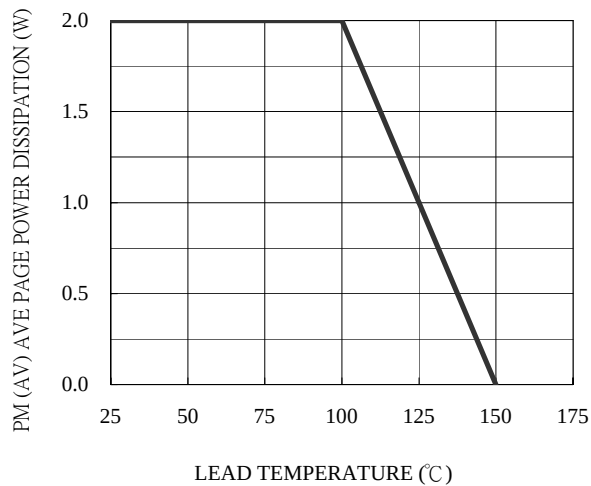


FIG. 2-TYPICAL TEMPERATURE COEFFICIENTS

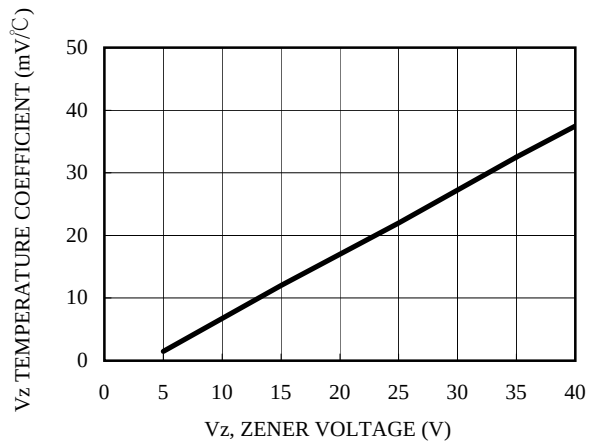


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

