

SEMICONDUCTOR

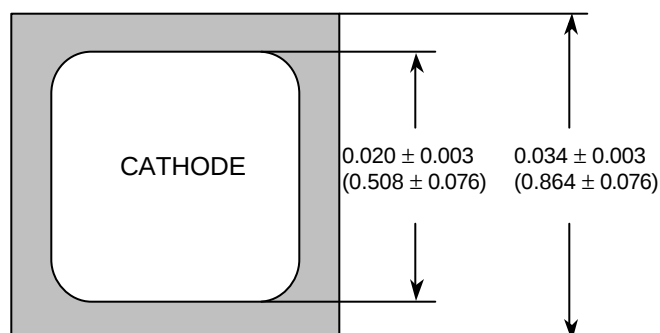
TECHNICAL DATA SHEET
DATASHEET 4220, Rev-

ZENER 0.5W VOLTAGE REGULATOR**CONFIGURATION: Zener 0.5W Voltage Regulator**

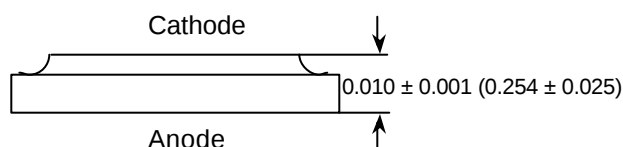
- All ratings are @ $T_c = 25^\circ\text{C}$ unless otherwise specified.
- Operating temperature: -55°C to $+175^\circ\text{C}$ and storage temperature: -65°C to $+175^\circ\text{C}$

MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
NOMINAL ZENER VOLTAGE $\pm 5\%$ @ I_{Z2}	$V_{Z2 \text{ NOM}}$	12.0	Vdc
MIN ZENER VOLTAGE @ 250 μA	$V_{Z1 \text{ MIN}}$	11.0	Vdc
TEST CURRENT	I_{Z2}	20	mAmps dc
MAXIMUM IMPEDANCE @ I_{Z2}	Max Z_Z	7	ohm
REVERSE VOLTAGE	V_R	9.0	Vdc
MAXIMUM REVERSE CURRENT	Max I_{R1}	1.0	uAmps dc
MAXIMUM REVERSE CURRENT @ $T_A = +150^\circ\text{C}$	Max I_{R2}	10	uAmps dc
MAXIMUM KNEE IMPEDANCE @ 250 μA	Max Z_K	550	ohm
MAXIMUM VOLTAGE REGULATION	Max $V_Z(\text{reg})$	0.55	Vdc
MAXIMUM TEMPERATURE COEFFICIENT *	αV_Z	0.083	%/ $^\circ\text{C}$
POWER DISSIPATION *	Power	0.5	Watts

* Adequate energy absorption should be provided.

MECHANICAL DIMENSIONS: In Inches (mm)

Bottom side metalization: Al - 25 kÅ minimum or
Ti/Ni/Ag - 30 kÅ minimum.
Top side metalization: Al - 25 kÅ minimum or
Ti/Ni/Ag - 30 kÅ minimum.
Bottom side is anode, top side is cathode.



TECHNICAL DATA

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