

**TECHNICAL DATA SHEET
DATASHEET 4221, Rev-**

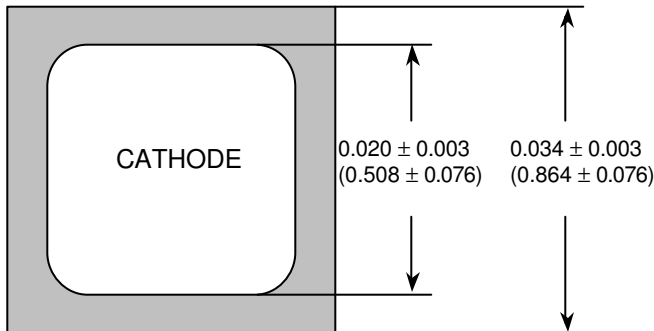
ZENER 0.5W VOLTAGE REGULATOR

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

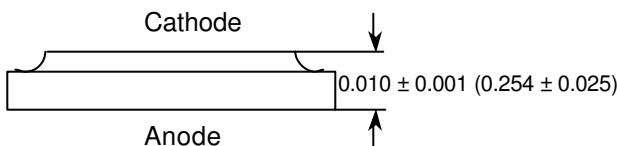
MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
NOMINAL ZENER VOLTAGE $\pm 5\%$ @ I_{Z2}	$V_{Z2\text{ NOM}}$	9.1	Vdc
MIN ZENER VOLTAGE @ $250\text{ }\mu\text{A}$	$V_{Z1\text{ MIN}}$	8.4	Vdc
TEST CURRENT	I_{Z2}	20	mAmps dc
MAXIMUM IMPEDANCE @ I_{Z2}	Max Z_Z	6	ohm
REVERSE VOLTAGE	V_R	7.0	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 @ $250\text{ }\mu\text{A}$	Max Z_K	500	ohm
MAXIMUM VOLTAGE REGULATION	Max $V_Z(\text{reg})$	0.50	Vdc
MAXIMUM TEMPERATURE COEFFICIENT *	αV_Z	0.076	%/ $^\circ\text{C}$
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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