SEMICONDUCTOR

TECHNICAL DATA SHEET DATASHEET 4221, Rev-

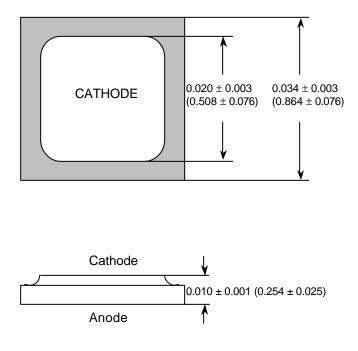
ZENER 0.5W VOLTAGE REGULATOR

- All ratings are @ Tc = 25 °C unless otherwise specified.
- Operating temperature: -55 °C to +175 °C and storage temperature: -65 °C to +175 °C

MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
NOMINAL ZENER VOLTAGE ± 5% @ IZ2	V _{Z2 NOM}	9.1	Vdc
MIN ZENER VOLTAGE @ 250 μA	V _{Z1 MIN}	8.4	Vdc
TEST CURRENT	I _{Z2}	20	mAmps dc
MAXIMUM IMPEDANCE @ Iz2	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 @ $T_A = +150^{\circ}C$	Max I _{R2}	10	uAmps dc
MAXIMUM KNEE IMPEDANCE @ 250 µA	Max Z _K	500	ohm
MAXIMUM VOLTAGE REGULATION	Max V _Z (reg)	0.50	Vdc
MAXIMUM TEMPERATURE COEFFICIENT *	αVz	0.076	%/°C
POWER DISSIPATION *	Power	0.5	Watts

* Adequate energy absorption should be provided.

MECHANICAL DIMENSIONS: In Inches (mm)



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



TECHNICAL DATA

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