

TECHNICAL DATA  
DATASHEET 4212, REV-

## ZENER 0.5W VOLTAGE REGULATOR

PART NUMBER: 1C6324

CONFIGURATION: Zener 0.5W Voltage Regulator

-All ratings are @  $T_c = 25\text{ }^\circ\text{C}$  unless otherwise specified.

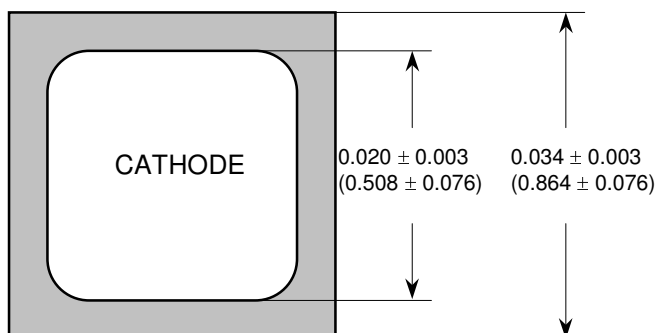
-Operating temp.:  $-55\text{ }^\circ\text{C}$  to  $+175\text{ }^\circ\text{C}$

-storage temp.:  $-65\text{ }^\circ\text{C}$  to  $+175\text{ }^\circ\text{C}$

MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
NOMINAL ZENER VOLTAGE $\pm 5\%$ @ $I_{Z2}$	$V_{Z2\text{ NOM}}$	10.0	Vdc
MIN ZENER VOLTAGE @ $250\text{ }\mu\text{A}$	$V_{Z1\text{ MIN}}$	9.1	Vdc
TEST CURRENT	$I_{Z2}$	20	mAmps dc
MAXIMUM IMPEDANCE @ $I_{Z2}$	Max $Z_Z$	6	ohm
REVERSE VOLTAGE	$V_R$	8.0	Vdc
MAXIMUM REVERSE CURRENT	Max $I_{R1}$	1	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 $V_Z(\text{reg})$	0.5	Vdc
MAXIMUM TEMPERATURE COEFFICIENT *	$\alpha V_Z$	0.079	%/ $^\circ\text{C}$
POWER DISSIPATION *	Power	0.5	Watts

\* Adequate energy absorption should be provided.

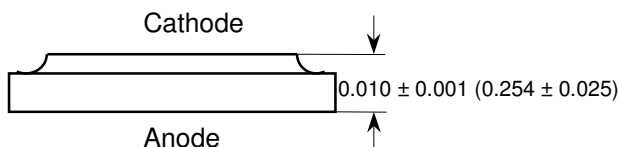
### MECHANICAL DIMENSIONS: In Inches (mm)



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.



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