

**TECHNICAL DATA**  
**DATASHEET 4213, REV-**

# **ZENER 0.5W VOLTAGE REGULATOR**

**PART NUMBER: 1C6327**

**CONFIGURATION: Zener 0.5W Voltage Regulator**

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

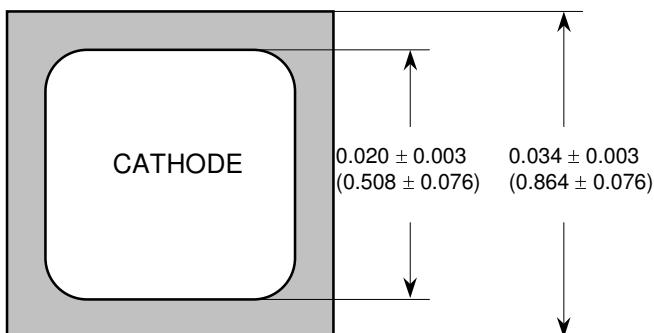
-Operating temp.:  $-55^\circ\text{C}$  to  $+175^\circ\text{C}$

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

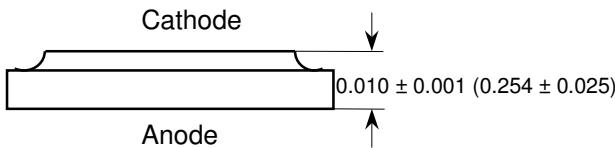
<b>MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS</b>	<b>SYMBOL</b>	<b>VALUE</b>	<b>UNITS</b>
NOMINAL ZENER VOLTAGE $\pm 5\%$ @ $I_{Z2}$	$V_{Z2\text{ NOM}}$	13.0	Vdc
MIN ZENER VOLTAGE @ 250 $\mu\text{A}$	$V_{Z1\text{ MIN}}$	11.9	Vdc
TEST CURRENT	$I_{Z2}$	9.5	mAmps dc
MAXIMUM IMPEDANCE @ $I_{Z2}$	Max $Z_Z$	8	ohm
REVERSE VOLTAGE	$V_R$	8.0	Vdc
MAXIMUM REVERSE CURRENT	Max $I_{R1}$	0.05	uAmps dc
MAXIMUM REVERSE CURRENT @ $T_A = +150^\circ\text{C}$	Max $I_{R2}$	10	uAmps dc
MAXIMUM KNEE IMPEDANCE @ 250 $\mu\text{A}$	Max $Z_K$	550	ohm
MAXIMUM VOLTAGE REGULATION	Max $V_Z(\text{reg})$	0.55	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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