ZENER 0.5W VOLTAGE REGULATOR CHIP/DIE

SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATASHEET 6004, REV A

ZENER 0.5W VOLTAGE REGULATOR CHIP/DIE

CONFIGURATION: Zener 500mW Voltage Regulator

- Die fabricated on a MIL-PRF-19500 JANKC qualified manufacturing line
- Class H and class K element evaluation per MIL-PRF-19500/127
- All ratings are @ Tc = 25 °C unless otherwise specified.
- Operating and storage temperature: -65 °C to +175 °C

ELECTRICAL CHARACTERISTICS

PART NUMBER	NOMINAL ZENER VOLTAGE	ZENER TEST CURRENT	MIN ZENER VOLTAGE	MAX ZENER IMPEDANCE	FORWARD VOLTAGE		MAX EVERS JRREI		MAX ZENER CURRENT	MAX TEMP. COEFF. OF ZENER VOLTAGE
	$V_{Z2} @ I_{ZT} = 20mA$	I _{ZT}	V _{Z1} @ 0.25mA	$Z_{ZT} @ I_{ZT}$	V_{F}	I	R @ V	₹	I_{ZM}	$lpha_{vz}$
						N	OTE (4)		
	NOTE (1)		NOTE (2)		NOTE (3)	I _{R1}	I _{R2}	V_R		
	V	mA	V	Ω	V	μΑ	μΑ	Α	mA	%/°C
1N757A	9.1	20	8.4	6	1.1	1	7.0	7.0	45	+.068
1N758A	10.0	20	9.1	7	1.1	1	8.0	8.0	40	+.076
1N759A	12.0	20	11.0	10	1.1	1	9.0	9.0	35	+.080

^{1/.} Vz₂ tolerance ±5%

^{2/.} Vz₁ maximum is the same as Vz₂ maximum

 $^{3/.} V_F$ maximum, I_F =200 mA dc

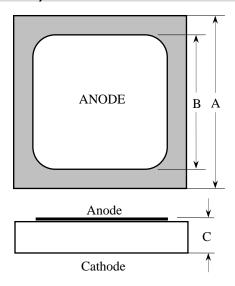
^{4/} I_{R2} maximum at 150 °C

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PACKAGE DIMENSIONS (inches/mm)



	Dimensions							
Ltr	Inc	ches	Millimeters					
	Min	Max	Min	Max				
A	.023	.027	0.584	0.686				
В	.015	.019	0.381	0.483				
С	.008	.012	0.203	0.305				

NOTES:

- 1. Dimensions are in inches.
- 2. Millimeter equivalents are given for general information only.
- 3. The die thickness is .010 (0.25 mm) \pm .002 inches (\pm 0.05 mm). Anode metallization: Al, thickness = 45,000 Å nominal; Cathode metallization: Au, thickness = Ti/Au (200Å/4,350Å) nominal

JANHCD1N757A thru JANHCD1N759A JANKCD1N757A thru JANKCD1N757A

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PART ORDERING INFORMATION:



Suffix	Part Number	Description
Н	JANHCD1N759A	Class H Level
K	JANKCD1N759A	Class K Level

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