

High-reliability discrete products and engineering services since 1977

1N6632-1N6637

5 WATT GLASS ZENER DIODE

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Operating Temperature:	-65 to +175°C	
Storage Temperature:	-65 to +175°C	
Power Dissipation:	er Dissipation: 5 Watts @ T _L = 25°C at 3/8" from body, derate linearly to zero @ 175°C.	
Thermal Resistance: 30°C/W junction to lead at 3/8" from body		
Thermal Impedance @ 10ms:	3.0°C/W	
Forward Voltage:	1.50 V @ 1.0A	

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Electrical Specifications @ 25°C								Maximum Ratings	
Туре	Nominal Zener Voltage V _z @ I _{zT}	Test Current I _{ZT}	Maximum Zener Impedance		Voltage Regulation △V _z	Maximum Reverse Leakage Current Voltage		Maximum Temperature Coeff.	Maximum Continuous Current	Surge Current I _{zsm}
			Z _Z @ I _{ZT}	Z _{ZK} @ I _{ZK} = 1mA	(note 1)	I _R	V _R	α _{Vz} @ I _{ZT}	I _{zM}	8.3ms square wave
	Volts	mA	онмѕ	OHMS	Volts	μΑ	Volts	%/°C	mA	Amps
1N6632	3.3	380	3.0	500	0.90	300	1.0	-0.075	1440	20.0
1N6633	3.6	350	2.5	500	0.80	250	1.0	-0.070	1320	18.7
1N6634	3.9	320	2.0	500	0.75	175	1.0	-0.060	1220	17.6
1N6635	4.3	290	2.0	500	0.70	25	1.0	-0.050	1100	16.4
1N6636	4.7	260	2.0	450	0.60	20	1.0	±0.025	1010	15.3
1N6637	5.1	240	1.5	400	0.50	5	1.0	±0.030	930	14.4

Standard voltage tolerances are $\pm 5\%$ with no suffix, suffix C $\pm 2\%$ and D suffix is $\pm 1\%$.

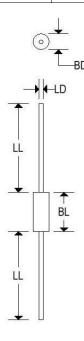
Note 1: Maximum voltage change ΔV_Z between 10% of I_{ZM} and 50% of $I_{ZM}.$



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MECHANICAL CHARACTERISTICS

Case:	Digi F				
Marking:	Body painted, alpha-numeric				
Polarity:	Cathode band				



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	Digi F							
	Inc	hes	Millimeters					
	Min	Max	Min	Max				
BD	-	0.135	-	3,429				
BL	-	0.180	ų.	4.572				
LD	0.038	0.042	0.965	1.067				
LL	1.000	-	25.400	7.4				



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