

### FEATURES

- Available as High Reliability, JANTX level by adding “-HR” suffix.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding “-PBF” suffix.
- 2,000V – 10,000V working reverse voltage
- 70ns recovery time
- Operating junction temperature: -65°C to +175°C.
- Storage temperature range: -65°C to +200°C.

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)

Part Number	Working Reverse Voltage (V <sub>RWM</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>RWM</sub> (I <sub>R</sub> )		Forward Voltage (V <sub>F</sub> )		1 Cycle Surge Current (I <sub>FSM</sub> )	Rep. Surge Current (I <sub>FRM</sub> )	Reverse Recovery Time (t <sub>rr</sub> )	Thermal Impedance (Θ <sub>J-L</sub> )			Junction Cap. @ 50VDC @1kHz (C <sub>J</sub> )
		55°C <sup>(1)</sup>	100°C <sup>(2)</sup>	25°C	100°C	25°C		25°C	25°C	25°C	L = 0.000	L = 0.125	L = 0.250	25°C
		V	A	A	μA	μA	V	A	A	A	ns	°C/W	°C/W	°C/W
1N6521	2000	0.500	0.250	0.5	20	3.0	0.50	25	5	70	5	12	21.5	8
1N6523	3000	0.250	0.125	0.5	20	5.0	0.25	15	3	70	5	12	21.5	4
1N6525	5000	0.150	0.075	0.5	20	7.0	0.15	10	2	70	5	12	21.5	3
1N6527	10000	0.100	0.050	0.5	20	12.0	0.10	5	1	70	5	12	21.5	2

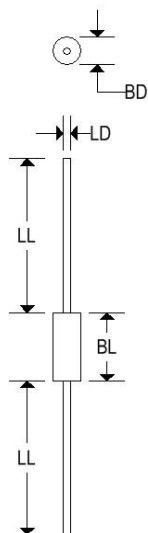
Note 1: T<sub>L</sub> = 55°C, L = 0.375"

Note 2: T<sub>L</sub> = 100°C, L = 0.375"

Note 3: I<sub>F</sub> = 125mA, I<sub>R</sub> = 250mA, I<sub>rr</sub> = 63mA

### MECHANICAL CHARACTERISTICS

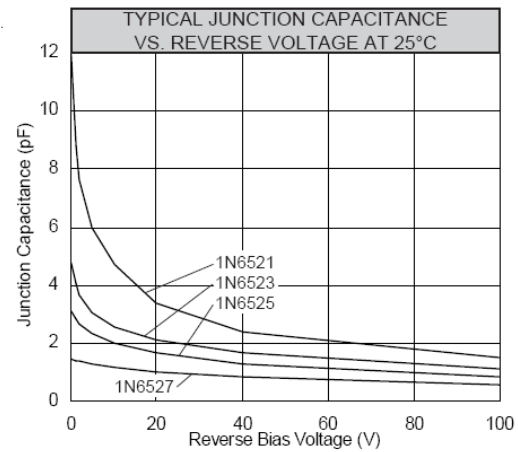
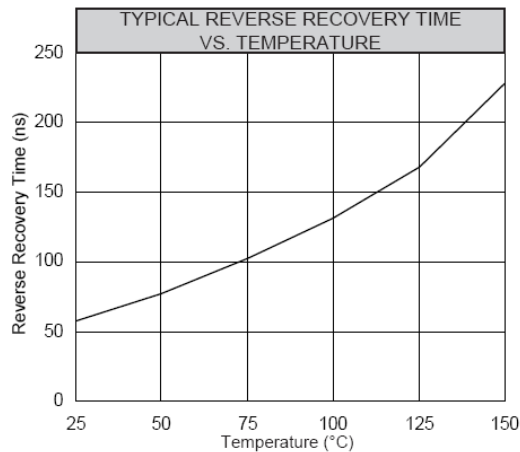
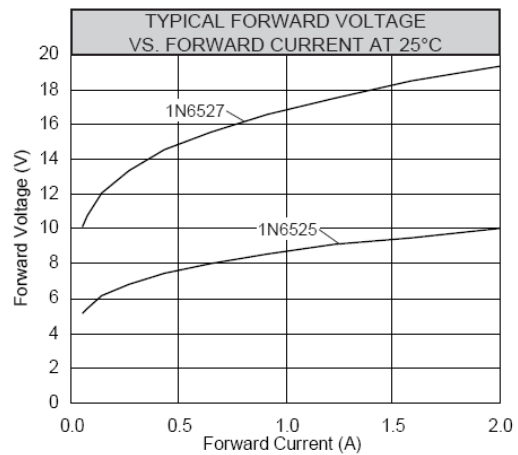
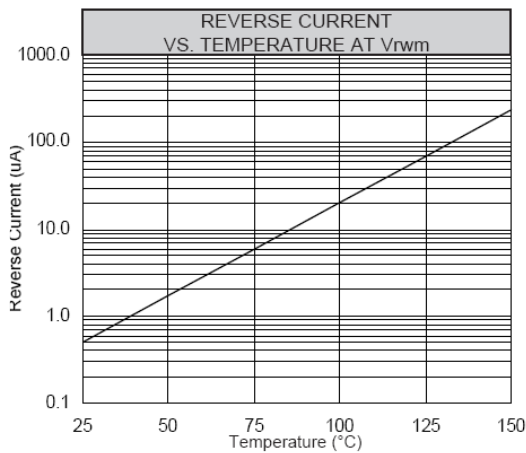
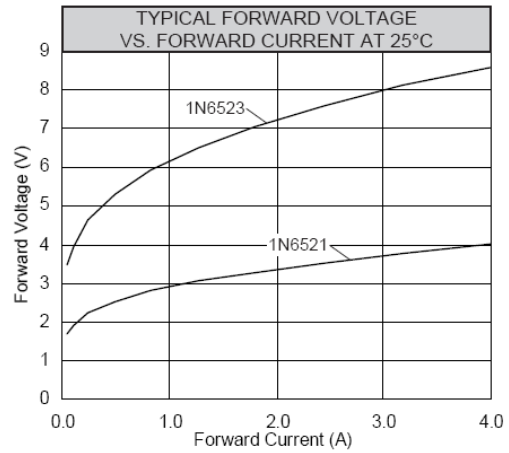
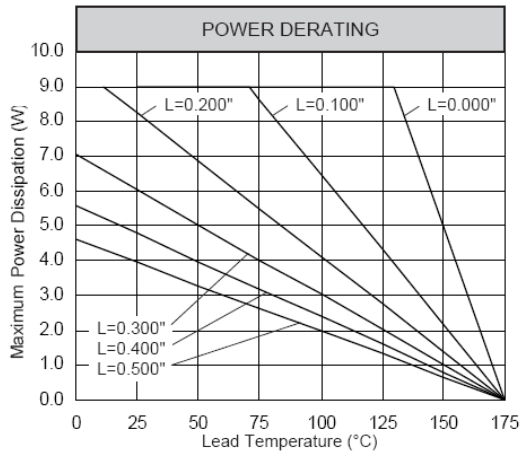
Case	Digi BB(X) Hermetically sealed glass
Marking	Body painted, alpha-numeric
Polarity	Cathode band



Part Number		DIGIBB(X)			
		Inches		Millimeters	
		Min	Max	Min	Max
ALL	BD	0.090	0.160	2.286	4.064
ALL	LD	0.027	0.033	0.686	0.838
ALL	LL	1.000	1.300	25.400	33.020
1N6521 DIGIBB(1)	BL	-	0.220	-	5.590
1N6523 DIGIBB(2)	BL	-	0.300	-	6.100
1N6525 DIGIBB(3)	BL	-	0.300	-	6.600
1N6527 DIGIBB(4)	BL	-	0.510	-	12.954

# 1N6521, 1N6523, 1N6525, 1N6527

## 0.1A - 0.5A RECTIFIERS





High-reliability discrete products  
and engineering services since 1977

1N6521, 1N6523,  
1N6525, 1N6527

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0.1A - 0.5A RECTIFIERS