

Electrical Characteristics (T=25°C unless otherwise specified)

Parameter	Symbol	1N6638	1N6642	1N6643	Units
Forward Voltage Drop max. at 10mA, T _j = 25 °C	V _{F1}	0.8	0.8	0.8	V
Forward Voltage Drop max. T _j = 25 °C	V _{F2}	1.1 @ I _F = 200mA	1.2 @ I _F = 100mA	1.2 @ I _F = 100mA	V
Reverse Current max. I _{R1} @ V _R = 20V	I _{R1}	35	25	50	nA
I _{R2} @ V _R = V _{RWM}	I _{R2}	500	500	500	nA
I _{R3} @ V _R = 20V, T _A = 150 °C	I _{R3}	50	50	75	uA
I _{R4} @ V _R = V _{RWM} , T _A = 150 °C	I _{R4}	100	100	100	uA
Forward Recovery Time max. I _F = 200mA	t _{fr}	20	20	20	ns
Reverse Recovery Time max. I _{RM} = I _F = 10mA	t _{rr}	4.5	5.0	6.0	ns
Junction Capacitance typ. V _R = 0V	C _{T1}	2.5	5.0	5.0	pF

Thermal Characteristics

Parameter	Symbol	1N6638	1N6642	1N6643	Units
Thermal Resistance-Junction to Lead Lead length = 0.375"	R _{θJL}	150			°C/W

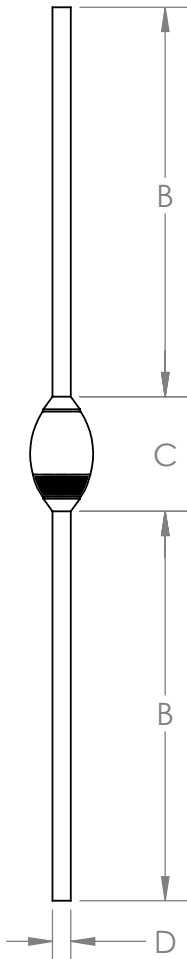
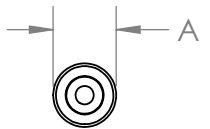
Ordering Information

Part Number	Description
1N6638 1N6642 1N6643	Axial leaded hermeticallysealed ⁽¹⁾

Note:

(1) Available in bulk and tape and reel packaging. Please consult factory for quantities.

Outline Drawing



Dimensions				
DIM	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.056	0.08	1.42	2.03
B	1.0	1.5	25.4	38.1
C	0.13	0.18	3.3	4.57
D	0.018	0.022	0.46	0.56



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