

Sealed Glass Zener Voltage Regulators 500 mW DO-34 Hermetically

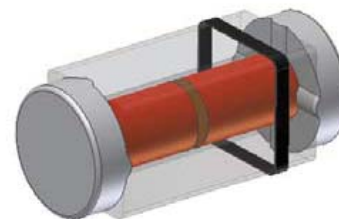
Absolute Maximum Ratings $T_A = 25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mW
T_{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\text{C}$
T_J	Operating Junction Temperature	+150	$^{\circ}\text{C}$
W_{IV}	Working Inverse Voltage	75	V
I_o	Average Rectified Current	150	mA
I_{FM}	Non-repetitive Peak Forward Current	450	mA
I_{FSURGE}	Peak Forward Surge Current	2	A

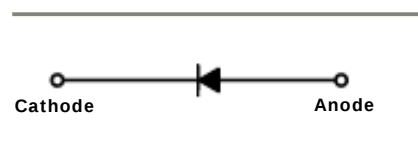
These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Fast Switching Device ($T_{RR} < 4.0 \text{ nS}$)
- QUADRO Mini-MELF Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Color band Indicates Negative Polarity



Cathode Band Color : Black



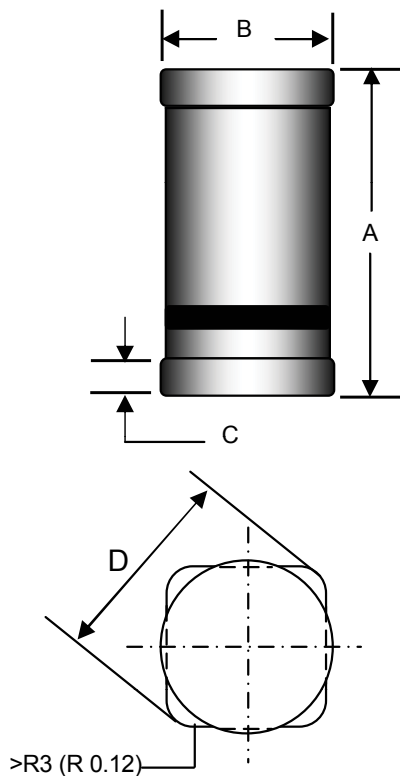
ELECTRICAL SYMBOL

Electrical Characteristics $T_A = 25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
BV	Breakdown Voltage	$I_R = 100\mu\text{A}$ $I_R = 5\mu\text{A}$	Min	Max	Volts
IR	Reverse Leakage Current	$V_R = 20\text{V}$ $V_R = 75\text{V}$	100 75		nA uA
VF	Forward Voltage	LS4448, LS914B LS4148 LS4448, LS914B $I_F = 5\text{mA}$ $I_F = 10\text{mA}$ $I_F = 100\text{mA}$	0.62	0.72 1.0 1.0	Volts
TRR	Reverse Recovery Time	$I_F = I_R = 10\text{mA}$ $R_L = 100\Omega$ $I_{RR} = 1\text{mA}$		4	nS
C	Capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$		4	pF

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Case Outline



DIM	QUADRO Mini-MELF			
	Millimeters		Inches	
	Min	Max	Min	Max
A	3.30	3.70	0.130	0.146
B	1.40	1.60	0.055	0.063
C	0.35	0.45	0.014	0.018
D	Typical 1.8		Typical 0.071	

Notes:

1. JEDEC DO-213 AA
2. Polarity Denoted by a Band.