



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 leads are readily solderable.
- RoHs compliant.
- Matte tin (Sn) lead finish.
- 1st band indicates cathode.

Maximum Ratings at Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Power Dissipation	P_d	500	mW
Working Inverse Voltage	W_{IV}	75	V
Non-repetitive Peak Forward Current	I_{FM}	450	mA
Average Rectified Current	I_O	150	
Peak Forward Surge Current	I_{FSURGE}	2	A
Operating Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to +200	°C

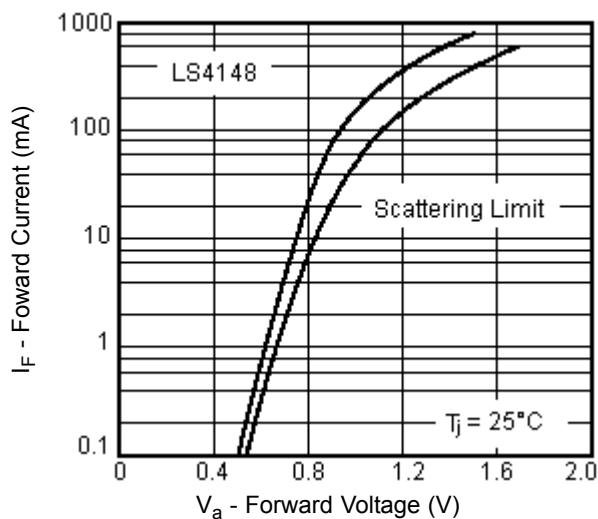
Electrical Characteristics

Type Number	Symbol	Minimum	Maximum	Units
Breakdown Voltage $I_R = 100\mu\text{A}$ $I_R = 5\mu\text{A}$	B_V	100 75	-	V
Forward Voltage LS4448, LS914B $I_F = 5.0\text{mA}$ LS4148 $I_F = 10\text{mA}$ LS4448, LS914B $I_F = 100\text{mA}$	V_F	0.62 - -	0.72 1.0 1.0	
Reverse Leakage Current $V_R = 20\text{V}$ $V_R = 75\text{V}$	I_R	-	25 5	nA uA
Junction Capacitance $V_R = 0$, $f = 1.0\text{MHz}$	C_j	-	4.0	pF
Reverse Recovery Time (Note 1)	t_{rr}	-		nS

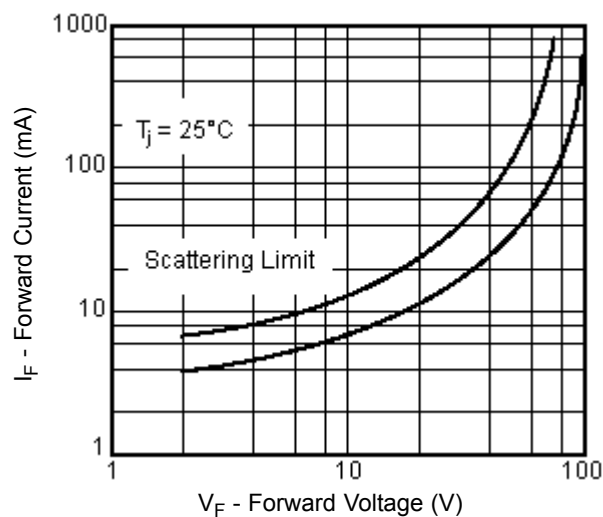
Notes: 1. Reverse Recovery Test Conditions: $I_F = I_R = 10\text{mA}$, $R_L = 100\Omega$, $I_{RR} = 1\text{mA}$.

Ratings and Characteristic Curves (LS4448/LS4148/LS914B)

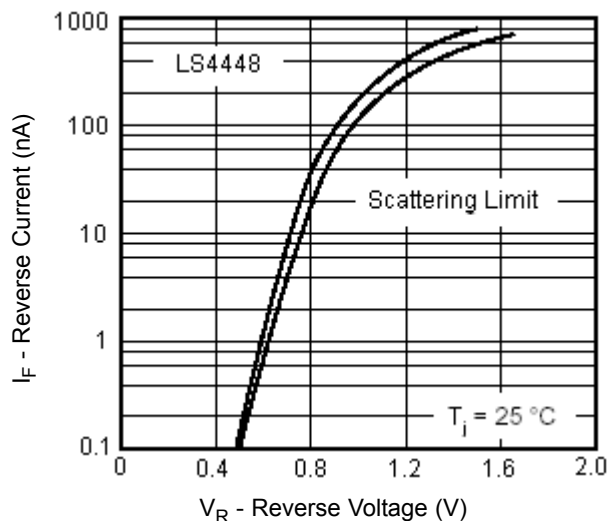
Forward Current vs. Forward Voltage



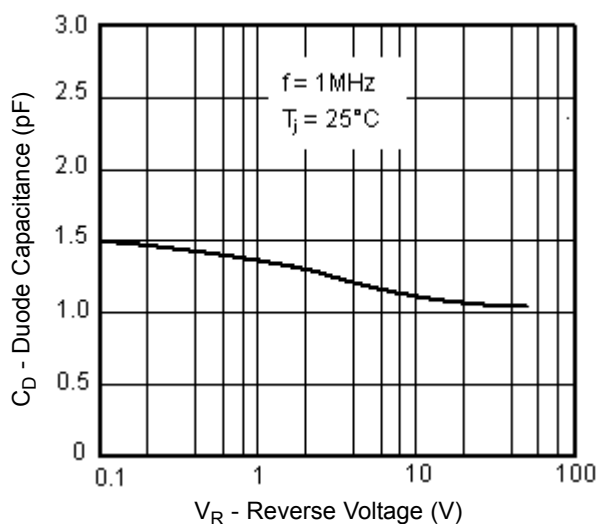
Forward Current vs. Forward Voltage



Reverse Current vs. Reverse Voltage



Diode Capacitance vs. Reverse Voltage



Part Number Table

Description	Part Number
Diode, High Speed, Quadro Melf	LS4148
Diode, High Speed, Quadro Melf	LS4448
Diode, High Speed, Quadro Melf	LS914B

Notes:

International Sales Offices:

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