



Micro Commercial Components
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LS4148

**500mW
Signal Diode**

Features

- QUADRO MELF
- Hermetically sealed glass
- Double stud / Solder Plating
- Glass Passivated

Maximum Ratings

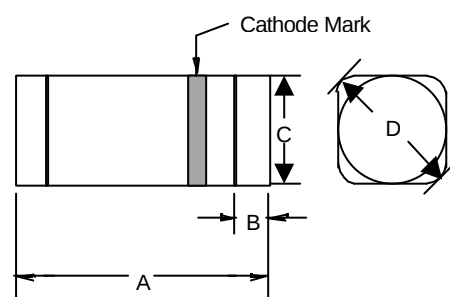
Reverse Voltage	V_R	75	V
Forward Current	I_F	150	mA
Power Dissipation 3.33mW/°C(25°C)	P	500	mW
Reverse Recovery Time	T_{rr}	4.0	nS
Junction Temp.	T_j	-55 to 150	°C
Storage Temp.	T_{stg}	-55 to 150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Breakdown Voltage	BV	100V	$I_R=100\mu A$
Peak Forward Surge Current	I_{Fsurge}	2.0A	$T_p=1.0\mu sec.$
Maximum Forward Voltage	V_F	1.0V	$I_F=10mA$
Maximum Reverse Current	I_R	0.025 μA 5.0 μA 50 μA	$V_R=20V$ $V_R=75V$ $V_R=20V, T_j=150^\circ C$
Maximum Junction Capacitance	Cj	4.0pF	$V_R=0,$ $f=1.0MHz$
Maximum Reverse Recovery Time	trr	4.0ns	$I_F=10mA,$ $V_R=6.0V,$ $I_{RR}=1.0mA,$ $R_L=100 OHM$
Maximum Thermal Resistance*	R_{JA}	500°C/W	

* On PC Board 50mmx50mmx1.6mm

Quadro MELF



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.063	1.40	1.60	Ø
D	.067		1.70		

SUGGESTED SOLDER PAD LAYOUT

