

# LS4148

## 500mW Signal Diode

### Features

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

### Maximum Ratings

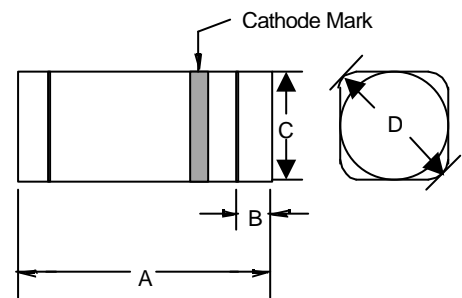
Reverse Voltage	$V_R$	75	V
Forward Current	$I_F$	150	mA
Power Dissipation 3.33mW/°C(25°C)	P	500	mW
Operating Junction Temp.	$T_j$	-65 to 175	°C
Storage Temp.	$T_{stg}$	-65 to 175	°C

### 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 $\mu A$ 5.0 $\mu A$ 50 $\mu A$	$V_R=20V$ $V_R=75V$ $V_R=20V, T_j=150^\circ C$
Maximum Junction Capacitance	$C_j$	4.0pF	$V_R=0,$ $f=1.0MHz$
Maximum Reverse Recovery Time	$t_{rr}$	4.0ns	$I_F=10mA,$ $V_R=6.0V,$ $I_{RR}=1.0mA,$ $R_I=100 OHM$
Maximum Thermal Resistance*	$R_{JA}$	500°C/W	

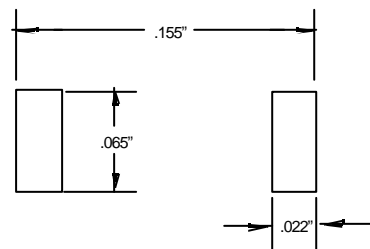
\* On PC Board 50mmx50mmx1.6mm

### Quadro MELF



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	∅
D	.067		1.70		

### SUGGESTED SOLDER PAD LAYOUT



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