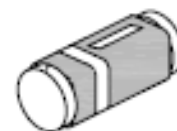


## Two Terminals Surface Mount Switching Diodes

### Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- General Purpose Rectification
- Silicon Epitaxial Planar Construction
- RoHS compliant



QuadromELF



### Mechanical Data

<b>Case:</b>	QuadromELF, Glass Case
<b>Terminals:</b>	Solderable per MIL-STD-202, Method 208
<b>Weight:</b>	0.05 grams

### Maximum Ratings *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	LS4148	LS4448	Unit	Conditions
<b>V<sub>RM</sub></b>	Reverse Voltage	75		V	
<b>V<sub>RRM</sub></b>	Peak Reverse Voltage	100		V	
<b>I<sub>F(AV)</sub></b>	Forward Average Current	150		mA	Valid provided that electrodes are kept at ambient temperature
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current, Pulse Width=1.0us	2.0		A	
<b>P<sub>D</sub></b>	Power Dissipation above 25°C	500		mW	
<b>V<sub>F</sub></b>	Forward Voltage	Min	---	0.62 @ 5mA	V
		Max	1.0 @ 10mA	0.72 @ 5mA 1.0@100mA	
<b>I<sub>R</sub></b>	Max. Reverse Current	0.025	0.025	μA	
		5.0	5.0		VR=75V
<b>C<sub>D</sub></b>	Diode Capacitance	4.0		pF	VR=0V, f=1MHz
<b>T<sub>rr</sub></b>	Reverse Recovery Time	4.0		ns	IF= 10mA, IR=1mA, VR=6V, RL=100Ω
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-65 to +175		°C	

# Two Terminals Surface Mount Switching Diodes

LS4148 LS4448

## Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

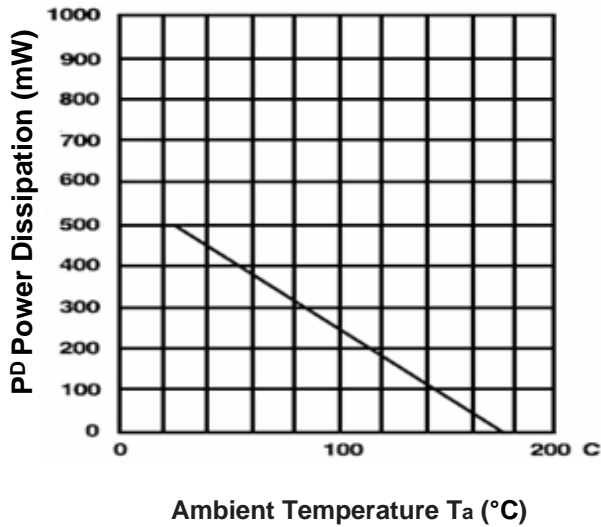


Fig.2- Typical Instantaneous Forward Characteristics

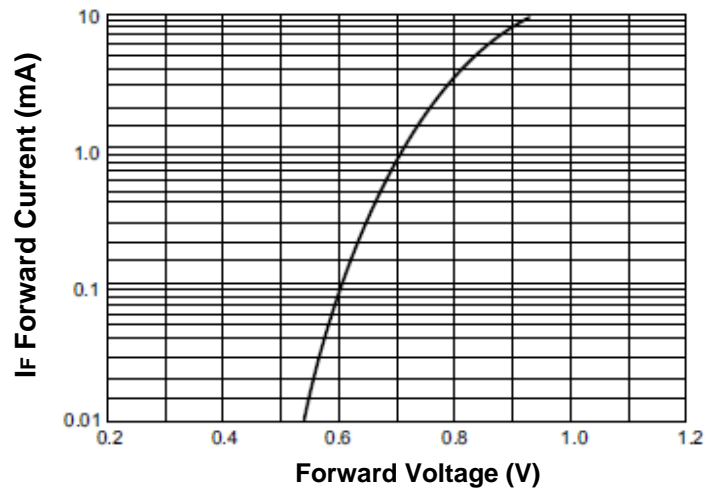


Fig.3- Junction Capacitance Curve

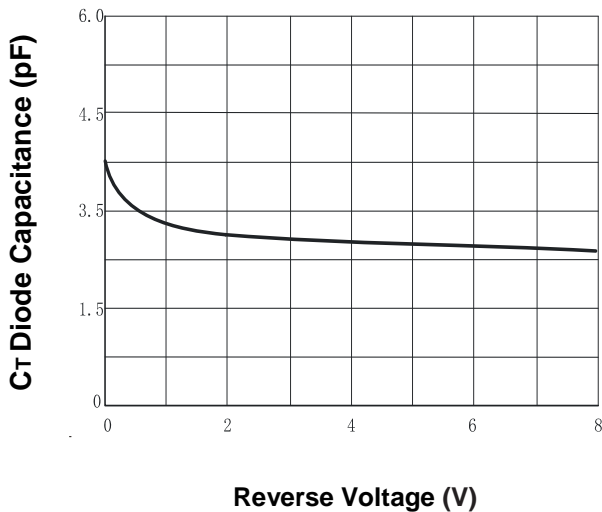
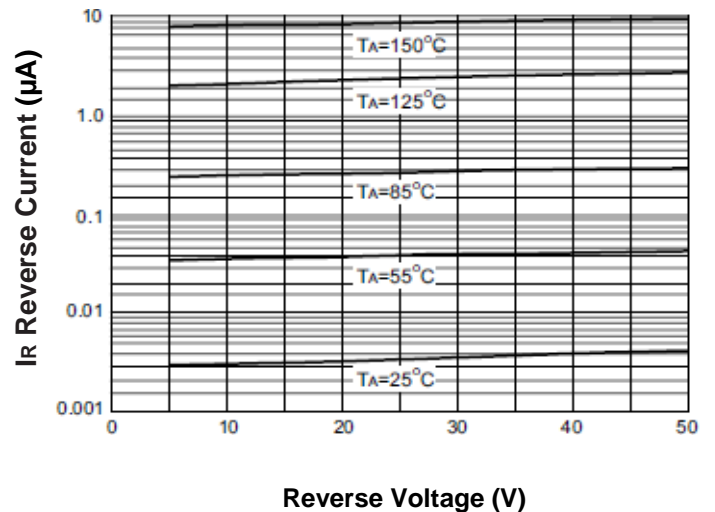


Fig.4- Typical Instantaneous Reverse Characteristics

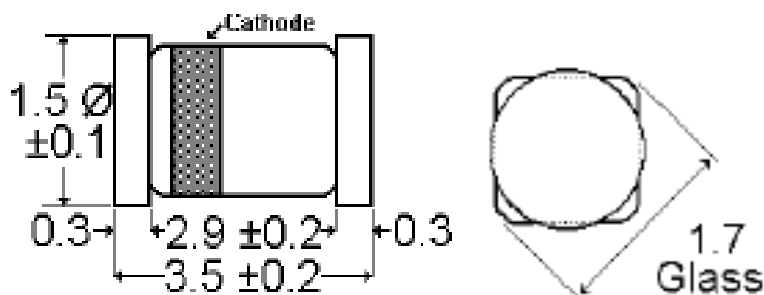


## Two Terminals Surface Mount Switching Diodes

LS4148 LS4448

### Dimensions in inch

#### QuadroMELF



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