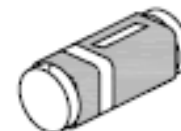


Two Terminals Surface Mount Switching Diodes

Features

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



QuadromELF



Mechanical Data

Case:	QuadromELF, Glass Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	0.03 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	LS4148	Unit	Conditions
V_{RM}	Reverse Voltage	75	V	
V_{RRM}	Peak Reverse Voltage	100	V	
I_{F(AV)}	Forward Average Current	150	mA	T _a =25°C, f ≥ 50Hz
I_{FSM}	Peak Forward Surge Current	500	mA	T _J =25°C, t < 1s
P_D	Power Dissipation	500	mW	T _a =25°C
V_F	Max. Forward Voltage	1.0	V	I _F =10mA
I_R	Max. Reverse Current	0.025	μA	V _R =20V
		5.0		V _R =75V
		50		V _R =20V, T _J =150°C
C_J	Max. Capacitance	4.0	pF	V _R =V _F =0V
T_{rr}	Max. Reverse Recovery Time	4.0	ns	I _F =-I _R =10mA to I _{RR} =-1mA, V _R =6V, R _L =100Ω
R_{θJA}	Typical Thermal Resistance	300	°C/W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175	°C	

Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

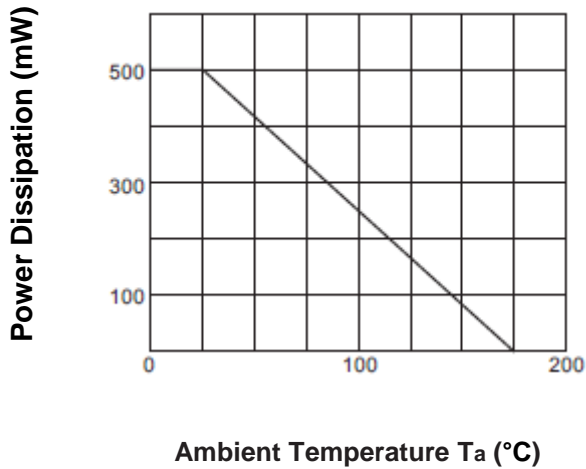


Fig.2- Typical Instantaneous Forward Characteristics

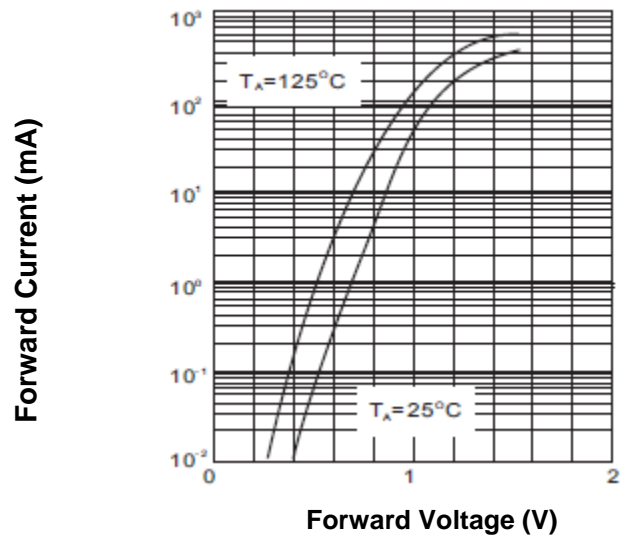


Fig.3- Junction Capacitance Curve

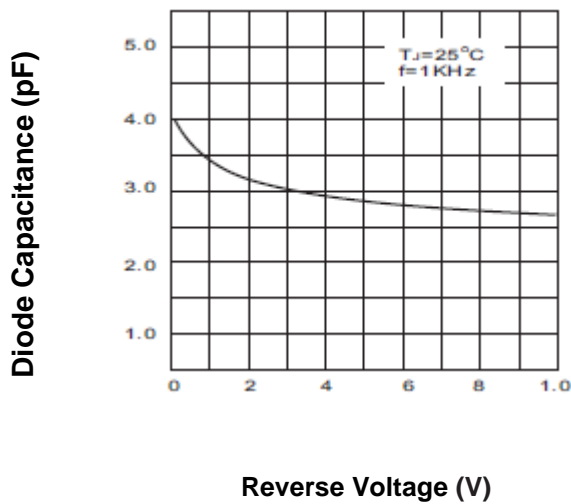


Fig.4- Forward Resistance vs. Forward Current

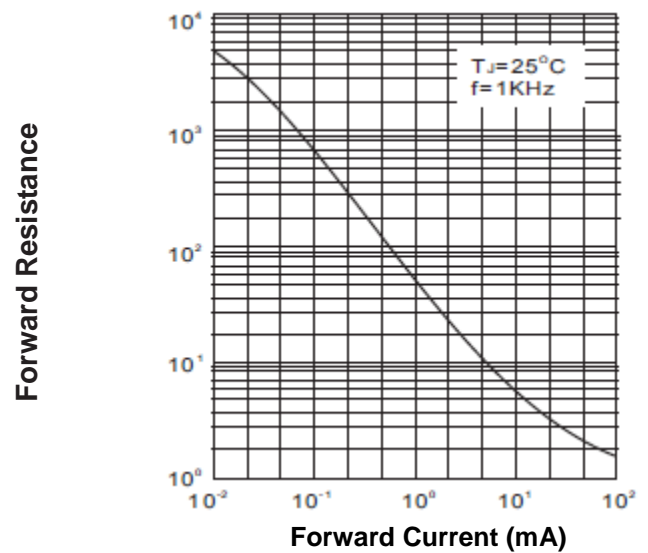
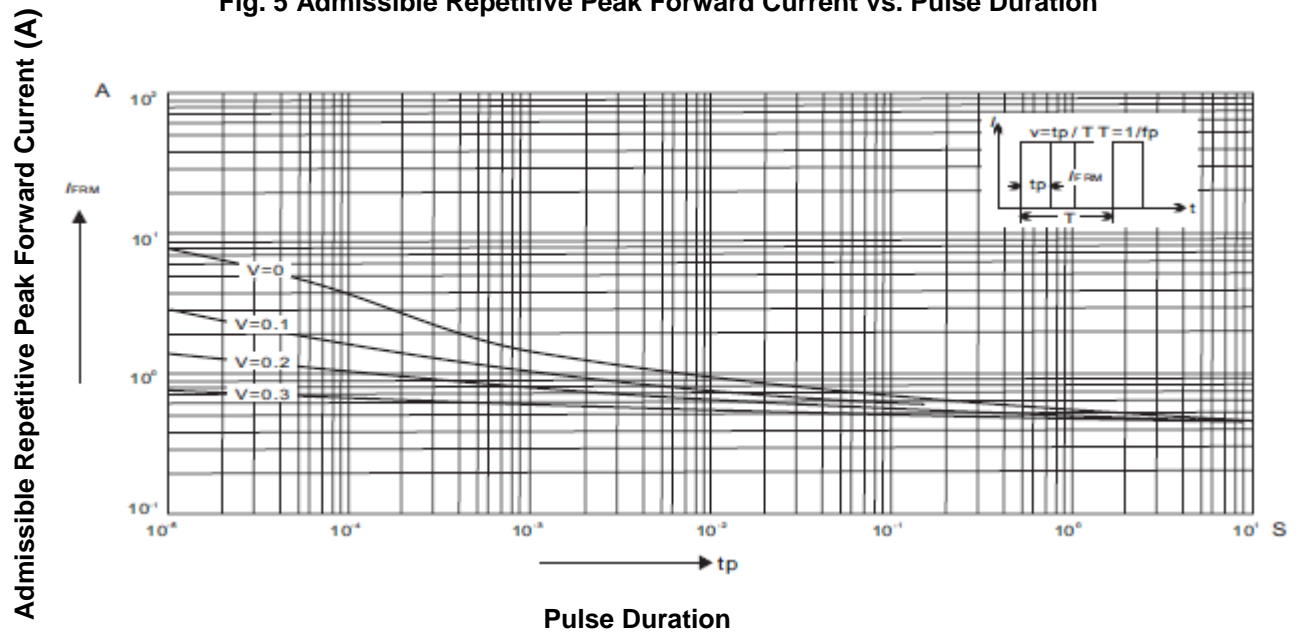
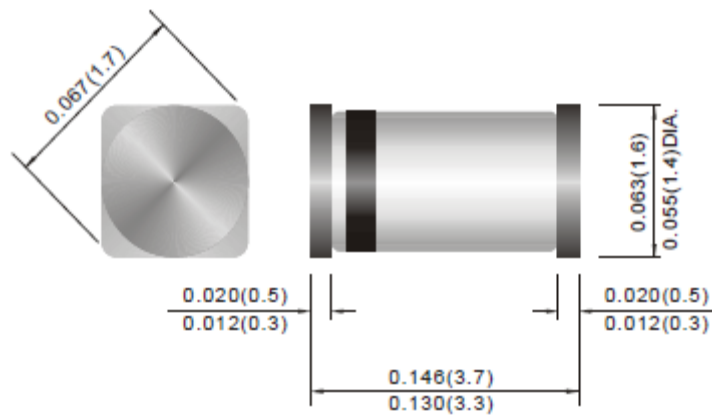


Fig. 5 Admissible Repetitive Peak Forward Current vs. Pulse Duration



Dimensions in inch (mm)

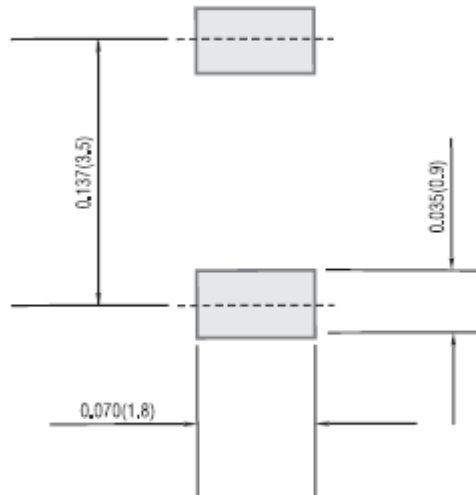


QuadroMELF

Two Terminals Surface Mount Switching Diodes

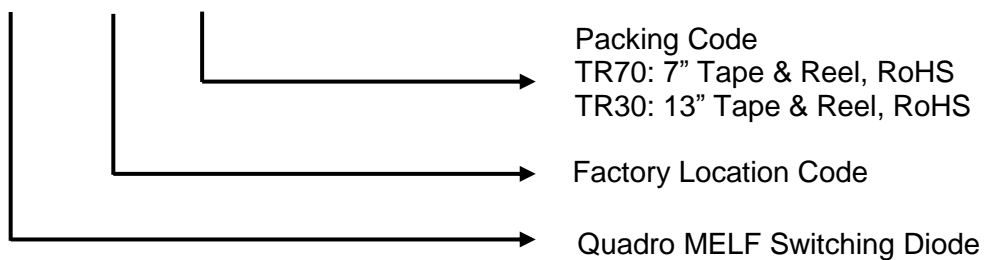
LS4148

Mount Pad Layout in Inch (mm)



How to Order

LS4148 - XX - XX



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