



FAST SWITCHING SURFACE MOUNT DIODES

POWER 500 mWatts **VOLTAGE** 100 Volts

FEATURES

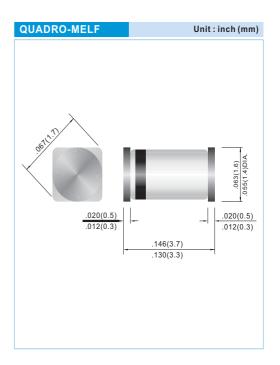
- · Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- · Silicon Epitaxal Planar Construction.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- · Case: QUADRO MELF, Glass
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Polarity: Cathode Band
- · Marking: Cathode Band Only
- Weight: 0.03 grams
- Packing information

T/R - 2.5K per 7" plastic reel

T/R - 10K per 13" plastic reel



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LS4148	UNITS
Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Forward Current at Ta=25 °C And f ≥50Hz	I _{F(AV)}	150	mA mA
Surge Forward Current at t < 1s and Tj= =25 °C	I _{FSM}	500	
Power Dissipation at Tamb= 25 °C	P _{тот}	500	mW
Maximum Forward Voltage at I _F =10mA	V _F	1.0	V
Maximum Leakage Current at V_R =20V at V_R =75V at V_R =20V , T_J = 150°C	I _R	25 5 50	nA μA μA
Maximum Capacitance at V _F =V _R =0	C _J	4	pF
Maximum Reverse Recovery Time From I_F =- I_R =10mA to I_{RR} =-1mA , V_R =6V R_L =100 Ω	t,,	4	ns
Typical Thermal Resistance	R _{eJA}	300	°C/W
Junction Temperature and Storage Temperature Range	T _J ,T _S	-65 to +175	°C

NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω

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RATING AND CHARACTERISTIC CURVES

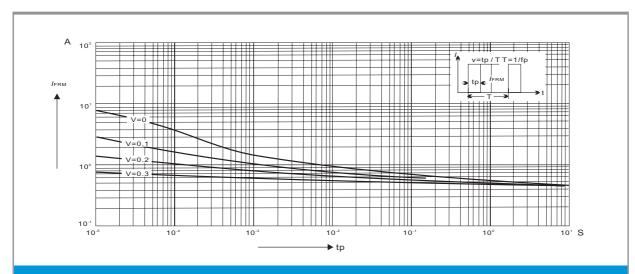


Fig. 1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

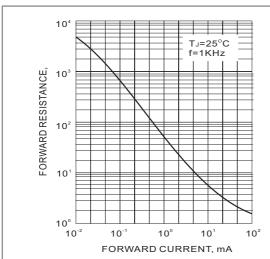


Fig.2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

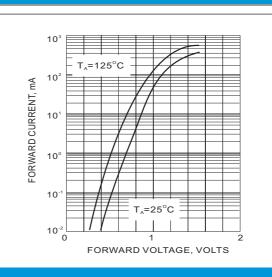


Fig.3 FORWARD CHARACTERISTICS

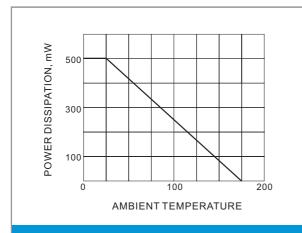


Fig.4 DERATING CURVE

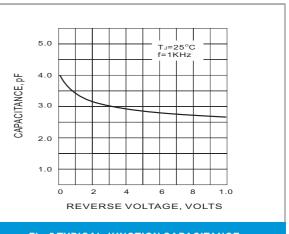


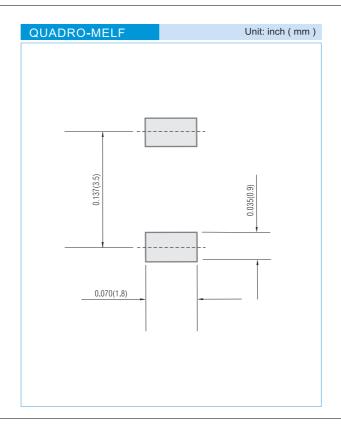
Fig.5 TYPICAL JUNCTION CAPACITANCE

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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel





Part No_packing code_Version

LS4148_R2_10001

For example :



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	Х			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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