

#### **FAST SWITCHING SURFACE MOUNT DIODES**

VOLTAGE 50 Volts POWER 500 mWatts

#### **FEATURES**

- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.
- Lead free in comply with EU RoHS 2002/95/EC directives

#### **MECHANICAL DATA**

• Case: QUADRO Melf, Glass

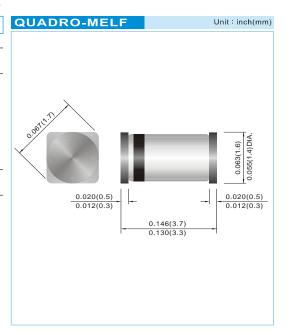
• Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Cathode BandMarking: Cathode Band Only

Weight: 0.03 gramsPacking information

T/R - 2.5K per 7" plastic reel

T/R - 10K per 13" plastic reel



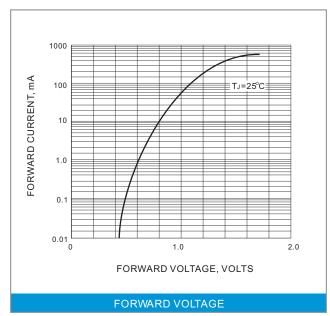
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ=25°C unless otherwise noted)

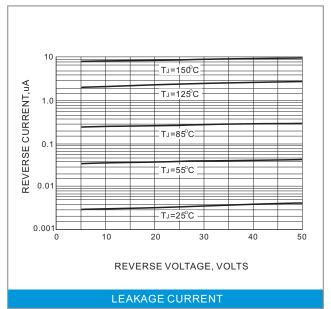
PARAMETER	SYMBOL	LS4150	UNITS
Reverse Voltage	V <sub>R</sub>	50	V
Peak Reverse Voltage	V <sub>RM</sub>	50	٧
RMS Voltage	V <sub>RMS</sub>	35	V
Maximum Average Forward Current at T <sub>A</sub> =25°C And f≥ 50Hz	I <sub>F(AV)</sub>	200	mA
Surge Forward Current at t < 1s and T <sub>J</sub> =25 °C	I <sub>FSM</sub>	500	mA
Power Dissipation at Tamb= 25 °C	P <sub>тот</sub>	500	mW
Maximum Forward Voltage at I <sub>F</sub> =200mA	V <sub>F</sub>	1.0	V
Maximum Leakage Current at V <sub>R</sub> = 50V	I <sub>R</sub>	0.1	μА
Maximum Capacitance (Note 1)	C <sub>J</sub>	4	pF
Maximum Reverse Recovery Time (Note 2)	t <sub>rr</sub>	4	ns
Typcal Thermal Resistance	R <sub>eJA</sub>	350	°C/W
Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>S</sub>	-65 to +175	°C

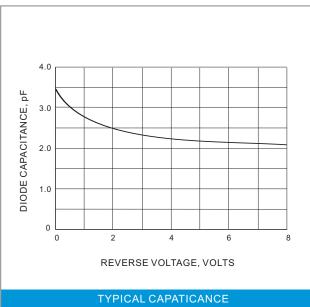
#### NOTE:

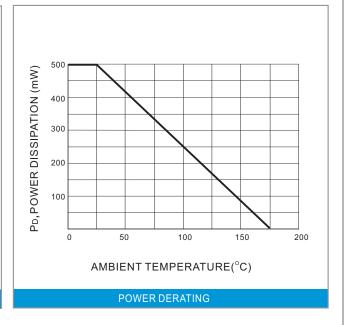
- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$





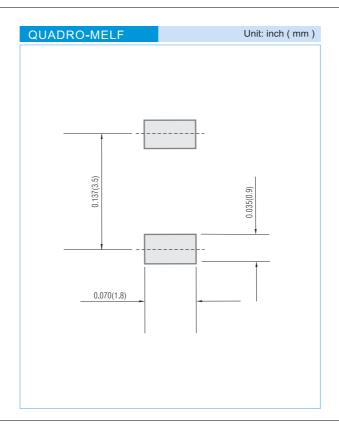








#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel



### Part No\_packing code\_Version

LS4150\_R1\_10001 LS4150\_R2\_10001

# For example : RB500V-40\_R2\_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	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)	T	26mm	X			
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			



## Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.