

Unit:inch(mm)

LL4148

FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE

POWER 500 mWatt

MINI-MELF/LL34

FEATURES

- · Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.

100 Volt

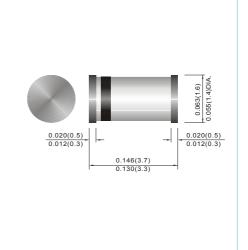
Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Mini Melf, Glass
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Marking: Cathode Band Only
- Weight: 0.001 ounce, 0.03 gram
- 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	VALUE	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Forward Current at $T_A = 25^{\circ}C$ And f \geq 50Hz	I _{F(AV)}	150	mA
Surge Forward Current at t < 1s and T _j =25 $^{\rm o}{\rm C}$	I _{FSM}	500	mA
Power Dissipation at T _A = 25°C	P _{TOT}	500	mW
Maximum Forward Voltage at I _F =10mA	V _F	1	V
Maximum Leakage Current at V_R =20V at V_R =75V at V_R =20V ,TJ= 150°C at V_R =100V	I _R	25 5 50 100	nA μA μA μA
Maximum Capacitance at $V_{F} = V_{R} = 0$	C	4	pF
Maximum Reverse Recovery Time From I_F =- I_R =10mA to I_{RR} =-1mA , V_R =6V RL=100 Ω	t _{rr}	4	ns
Typical Thermal Resistance	$R_{_{\!\!\!\!\!\thetaJA}}$	300	°C / W
Junction Temperature and Storage Temperature Range	T _J ,T _s	-65 to +175	°C

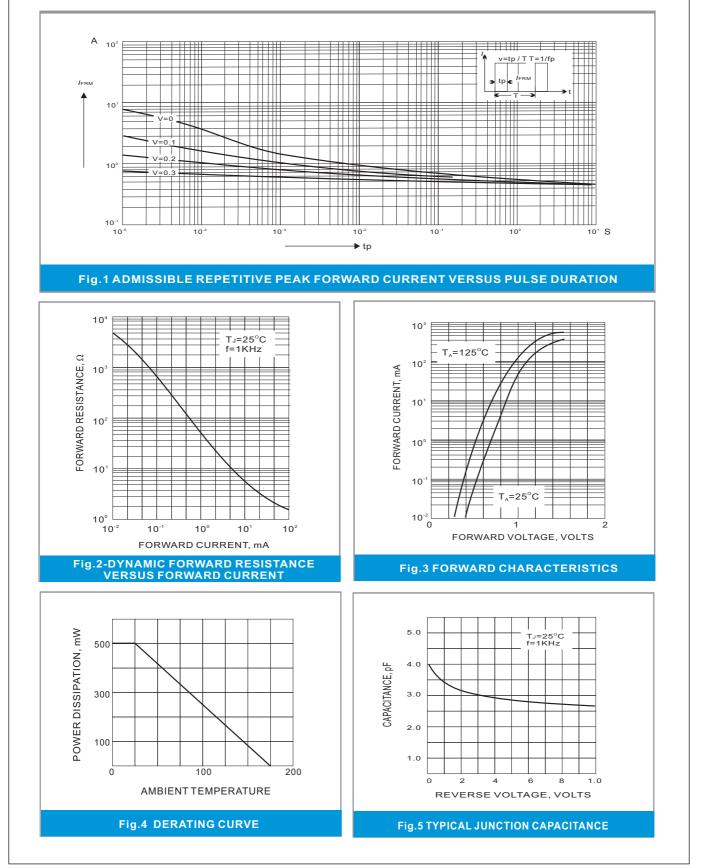
NOTE:

1. CJ at VR=0, f=1MHZ

2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω



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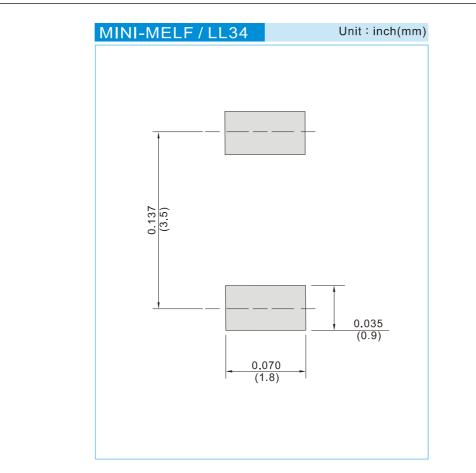
RATING AND CHARACTERISTIC CURVES





LL4148

MOUNTING PAD LAYOUT



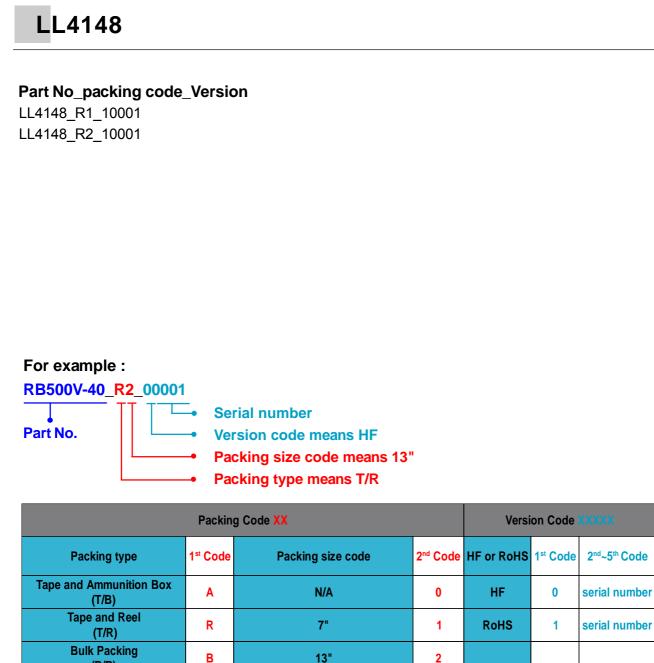
ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel





26mm

52mm

PANASERT T/B CATHODE UP

(PBCU)

PANASERT T/B CATHODE DOWN

(PBCD)

Х

Y

U

D

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

Т

S

L

F



LL4148

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