



FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE 100 Volt POWER 500 mWatt

FEATURES

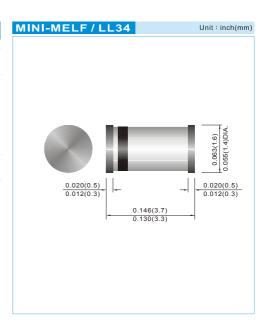
- · Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- · Case: 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	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	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°C And f ≥50Hz	I _{F(AV)}	150	mA
Surge Forward Current at t < 1s and T _J =25 °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 , T_J = 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 _J	4	pF
Maximum Reverse Recovery Time From $I_F = I_R = 10 \text{mA to } I_{RR} = -1 \text{mA }, V_R = 6 \text{V } R_L = 100 \ \Omega$	t _{rr}	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 V_R=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω

June 25,2019-REV.08 PAGE . 1





RATING AND CHARACTERISTIC CURVES

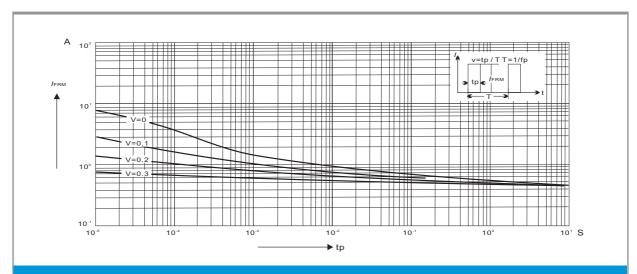


Fig. 1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

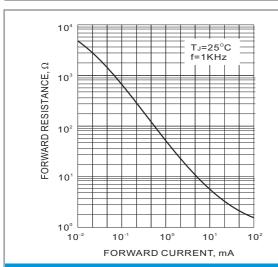


Fig.2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

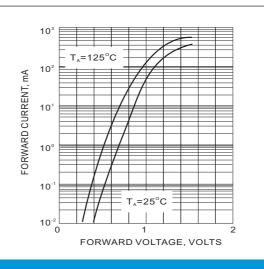


Fig.3 FORWARD CHARACTERISTICS

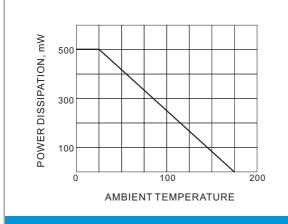


Fig.4 DERATING CURVE

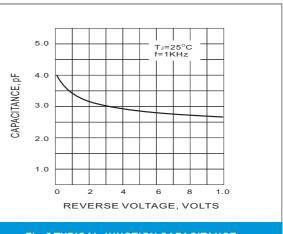
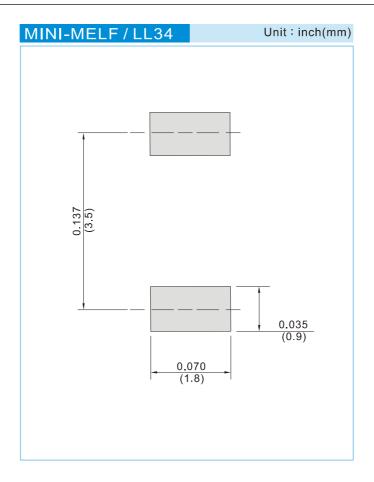


Fig.5 TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel

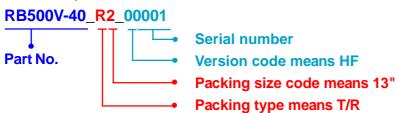




Part No_packing code_Version

LL4148_R1_10001 LL4148_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)	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)	Т	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			





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