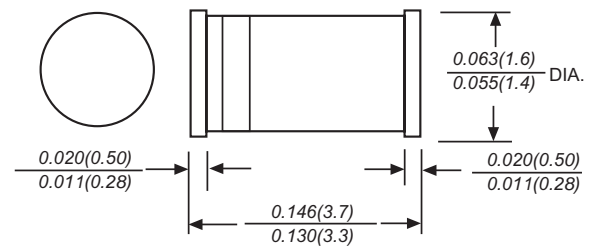


VII. Switching Diode

**(a). SMD Type (Mini-MELF)
LL914...LL4454**

(Package: Mini-MELF)

<p><u>FEATURES</u></p> <ul style="list-style-type: none"> Silicon epitaxial planar diode Fast switching diodes 400~500 mW power dissipation High temperature soldering guaranteed 250 /10 seconds at terminals <p><u>MECHANICAL DATA</u></p> <ul style="list-style-type: none"> Case : Mini-MELF glass sealed envelope Terminals : Solder plated, solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.002 ounce, 0.05 grams 	 <p style="text-align: center;">Case: Mini-MELF Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Type	Peak reverse voltage V_{RM} V	Max. aver. rectified current I_o mA	Max. power dissipation at 25°C P_{tot} mW	Max. junction temperature T_j °C	Max. forward voltage drop		Max. reverse current		Max. reverse recovery time	
					V_F V	at I_F mA	I_R nA	at V_R V	T_{rr} ns	Conditions
LL914	100	75	500	200	1.0	10	25	20	max.4.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4149	100	150	500	200	1.0	10	25	20	max.4.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4151	75	150	500	200	1.0	50	50	50	max.2.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4152	40	150	400	175	0.55	0.10	50	30	max.2.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4153	75	150	400	175	0.55	0.10	50	50	max.2.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4154	35	150	500	200	1.0	30	100	25	max.2.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4447	100	150	500	200	1.0	20	25	20	max.4.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4449	100	150	500	200	1.0	30	25	20	max.4.0	$I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$, to $I_R = 1\text{mA}$
LL4450	40	150	400	175	0.54	0.50	50	30	max.4.0	$I_F = I_R = 10\text{mA}$, to $I_R = 1\text{mA}$
LL4451	40	150	400	175	0.50	0.10	50	30	max.10	$I_F = I_R = 10\text{mA}$, to $I_R = 1\text{mA}$
LL4453	30	150	400	175	0.55	0.01	50	20	-	-
LL4454	75	150	400	175	1.0	10	100	50	max.4.0	$I_F = I_R = 10\text{mA}$, to $I_R = 1\text{mA}$