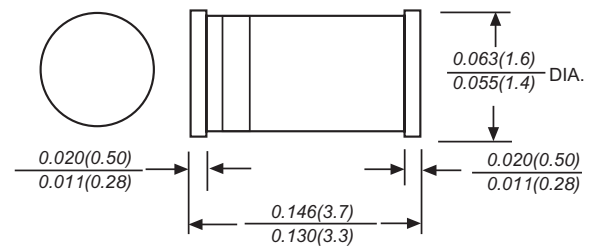


## VII. Switching Diode

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

(Package: Mini-MELF)

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

### 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 $I_R = 1\text{mA}$