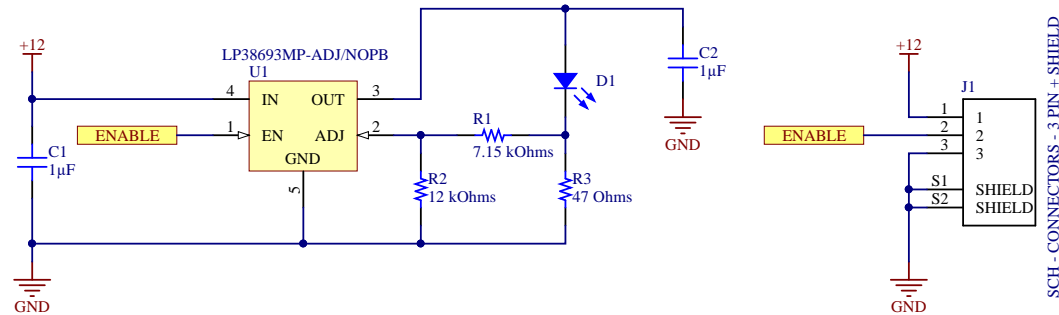
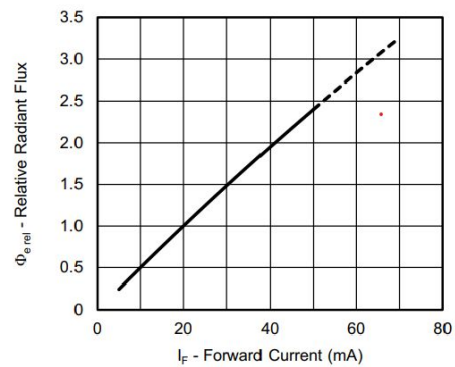
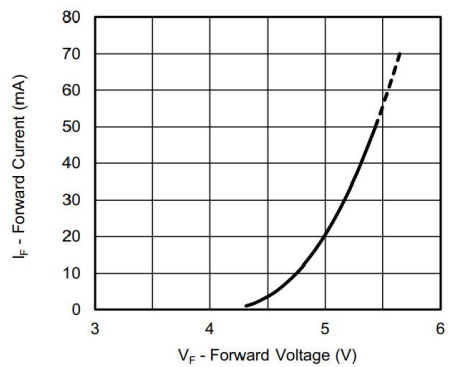


VLMU60CL00-280-125CT-ND

Forward Voltage ~ 5.4V
Forward Current ~ 40mA
Radiant Flux ~ 1.9mW



$$V_{out} = V_{adj} * (1 + R1/R2)$$

$$V_{adj} = 1.25V$$

$$V_{out} = 2V \text{ across } R3$$

$$R2 = 12K \text{ (chosen)}$$

$$R1 = 7.2K \text{ (calculated) [7.15K actual]}$$

$$V = IR$$

$$2V = 45mA * R$$

$$R = 44.44 \text{ Ohms (47 Ohms actual)}$$

Because the part has a minimum load current requirement of 100 μA , it is recommended that R2 always be 12k Ω or less to provide adequate loading. Even if a minimum load is always provided by other means, it is not recommended that very high value resistors be used for R1 and R2 because it can make the ADJ node susceptible to noise pickup. A maximum Ohmic value of 100 k Ω is recommended for R2 to prevent this from occurring. (8.2.2.1 Page 14 of datasheet)

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Size: A4	Author Adam R. Lehman	Revision: 1A		
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