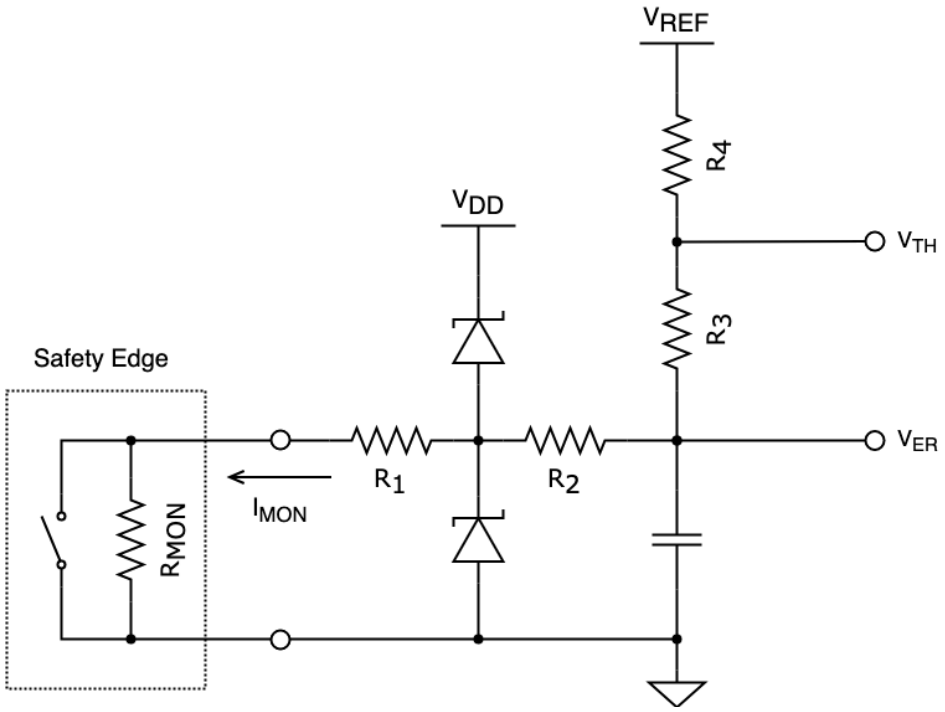

Safety Edge Circuit

V_{REF} (V)	2.5		**V_{TH} for R_4 calc (V)**	1.250
R_1 (Ω)	1000	Std 1%	**R_4 calc (Ω)**	24759
R_2 (Ω)	10000	Std 1%	**V_{TH} Short (V)**	1.018
R_3 (Ω)	6040	Std 1%	**V_{TH} Min (V)**	1.246
R_4 (Ω)	24900	Std 1%	**V_{TH} 8K (V)**	1.257
R_{MON} Short (Ω)	50		**V_{TH} 10K (V)**	1.302
R_{MON} Min (Ω)	7719		**V_{TH} Max (V)**	1.313
R_{MON} 8K (Ω)	8125		**I_{MON} Max (µA)**	50
R_{MON} 10K (Ω)	10000		**V_{ER} Max (V)**	1.025
R_{MON} Max (Ω)	10500			

Eq1 $$V_{TH} = \frac{R_{MON} + R_1 + R_2 + R_3}{R_{MON} + R_1 + R_2 + R_3 + R_4} V_{REF}$$

Eq2 $$V_{ER} = \frac{R_{MON} + R_1 + R_2}{R_{MON} + R_1 + R_2 + R_3 + R_4} V_{REF}$$

From Eq1 $$R_4 = \left(\frac{V_{REF}}{V_{TH}} - 1 \right) \left(R_{MON} + R_1 + R_2 + R_3 \right)$$