



$$I_{cell} = I_{ph} - I_o * \left(e^{\frac{V_{cell} + I_{cell} * R_s}{n_1 * V_{Tn}}} - 1 \right) - \frac{V_{cell} + I_{cell} * R_s}{R_{sh}} \left(1 + a \left(1 - \frac{V_{cell} + I_{cell} * R_s}{V_{br}} \right) \right)^{-m}$$

Series Resistance	R_s	1.073Ω
Shunt Resistance	R_{sh}	0.1226Ω
Saturation current	I_o	$1.52 * 10^{-8} A$
Photo-generated current	I_{ph}	$0.68A$
Ideality factor	n	1.07
Fraction of ohmic current	a	0.0224
Breakdown voltage	V_{br}	$-23.73V$
Avalanche breakdown exponent	m	6.83