Test Parameter	Description	MIN	TYP	MAX	UNITS
INPUT SUPPLY (IN)					
$I_{Q(ON)}$	IN supply quiescent current		130	165	µA
$I_{Q(OFF)}$	IN supply OFF state current ($V_{SD(F)} < V_{EN} < V_{UVLO(F)}$)		144	230	µA
I_{SD}	IN supply shutdown current ($V_{EN} < V_{SD(F)}$)		0.6	1.5	µA
$V_{UVP(R)}$	IN supply UVP rising threshold	2.46	2.54	2.61	V
$V_{UVP(F)}$	IN supply UVP falling threshold	2.31	2.42	2.54	V
$V_{OVP(R)}$	VIN fixed overvoltage rising threshold, OVLO = GND, T_J = 25°C	5.55	5.98	6.5	V
V_{OVPHys}	VIN fixed overvoltage hysteresis, OVLO = GND	85	111	135	mV
OVERCURRENT PROTECTION (OUT)					
I_{LIM}	Overcurrent threshold, ILIM = Open, T_J = 25°C		0.116		A
	Overcurrent threshold, R_{ILIM} = 250 kΩ, T_J = 25°C		0.212		A
	Overcurrent threshold, R_{ILIM} = 100 kΩ, T_J = 25°C		0.516		A
	Overcurrent threshold, R_{ILIM} = 62.5 kΩ, T_J = 25°C		0.856		A
	Overcurrent threshold, R_{ILIM} = 34.48 kΩ, T_J = 25°C	1.189	1.45	1.711	A
	Overcurrent threshold, R_{ILIM} = 25 kΩ, T_J = 25°C		2.36		A

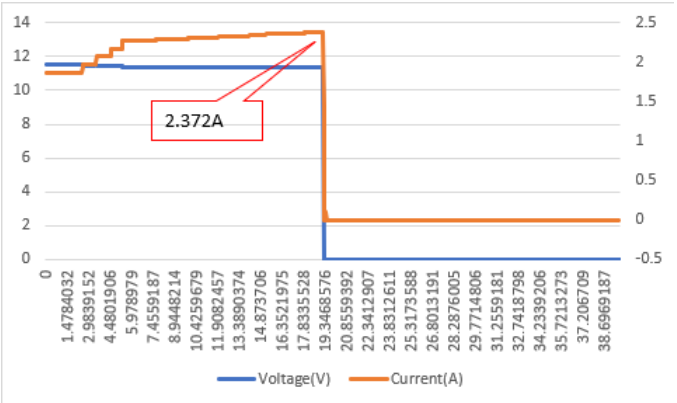
Use equation below to calculate the R_{ILIM} value for overcurrent thresholds ≥ 200 mA.

$$RILIM = \frac{50000}{ILIM} \quad (5)$$

1 Features

- Wide input voltage range: 2.7 V to 19 V
  - 21-V absolute maximum
- Low on-resistance: Ron = 106 -mΩ (typical)
- Active high enable input with adjustable undervoltage lockout (UVLO)
- Overvoltage protection with a response time of 1.3 µs (typical)
  - Fixed internal threshold: 5.98 V (typical)
  - Adjustable threshold using external resistor divider
- Overcurrent protection:
  - Adjustable current limit threshold: 0.1 A to 2 A
  - Current limit accuracy:
    - ±20% (typical) across current range
    - ±18% (maximum) at 1.45-A current limit, T_A = 25°C

OCP test result on customer board [R(ILIM)=27.4kohm -> ILIM=1.825A]



Calculated ILIM

R(ILIM, max)=27.674kohm / ILIM=1.80675A / ILIM+20%=2.1681A

R(ILIM, min)=27.126kohm / ILIM=1.84325A / ILIM+20%=2.2119A