

Absolute Maximum Ratings⁽¹⁾

Supply Voltage (V_{IN}) -0.3V to 6V
 Enable Voltage (V_{EN}) -0.3V to V_{IN}
 Power Dissipation (P_D) Internally Limited⁽³⁾
 Lead Temperature (soldering, 10s) 260°C
 Junction Temperature (T_J) -40°C to +150°C
 Storage Temperature (T_s) -65°C to +150°C
 ESD Rating⁽⁴⁾ 3kV

Operating Ratings⁽²⁾

Supply Voltage (V_{IN}) 2.5V to 5.5V
 Enable Voltage (V_{EN}) 0V to V_{IN}
 Junction Temperature (T_J) -40°C to +125°C
 Junction Thermal Resistance
 1.6mm × 1.6mm Thin DFN-6 (θ_{JA}) 92.4°C/W

Ordering Information

Part Number	Marking Code	Output Voltage ⁽⁵⁾	Auto-Discharge	EN Pull-down	Temperature Range
MIC5512-1.2YMT	7E	1.2V	YES	NO	-40°C to +125°C
MIC5512-1.8YMT	7D	1.8V	YES	NO	-40°C to +125°C
MIC5512-2.8YMT	7C	2.8V	YES	NO	-40°C to +125°C
MIC5512-3.3YMT	7A	3.3V	YES	NO	-40°C to +125°C
MIC5514-1.2YMT	B8	1.2V	YES	YES	-40°C to +125°C
MIC5514-1.8YMT	B7	1.8V	YES	YES	-40°C to +125°C
MIC5514-2.8YMT	A9	2.8V	YES	YES	-40°C to +125°C
MIC5514-3.0YMT	A8	3.0V	YES	YES	-40°C to +125°C
MIC5514-3.3YMT	A7	3.3V	YES	YES	-40°C to +125°C

Notes:

- Exceeding the absolute maximum rating may damage the device.
- The device is not guaranteed to function outside its operating rating.
- The maximum allowable power dissipation of any T_A (ambient temperature) is $P_{D(max)} = (T_{J(max)} - T_A) / \theta_{JA}$. Exceeding the maximum allowable power dissipation will result in excessive die temperature, and the regulator will go into thermal shutdown.
- Devices are ESD sensitive. Handling precautions are recommended. Human body model, 1.5k Ω in series with 100pF.
- Other voltages are available. Contact Micrel for details.

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