

## 产品概览

### NFAQ1060L36T: Intelligent Power Module (IPM), 600 V, 10 A

欲看完整文档，请参阅数据表。

The NFAQ1060L36T is a fully-integrated inverter power stage consisting of a high-voltage driver, six IGBT's and a thermistor, suitable for driving permanent magnet synchronous (PMSM) motors, brushless-DC (BLDC) motors and AC asynchronous motors. The IGBT's are configured in a 3-phase bridge with separate emitter connections for the lower legs for maximum flexibility in the choice of control algorithm.

The power stage has a full range of protection functions including cross-conduction protection, external shutdown and under-voltage lockout functions. An internal comparator and reference connected to the over-current protection circuit allows the designer to set the over-current protection level.

#### 特性

- Three-phase 10 A / 600 V IGBT module with integrated drivers using DBC substrate
- Typical values:  $V_{CE(sat)} = 1.9V$ ,  $V_F = 2.4V$ ,  $ESW = 400 \mu J$  at 10 A
- Compact 29.6 mm x 18.2 mm dual in-line package
- Adjustable over-current protection level
- Integrated bootstrap diodes and resistors
- Thermistor
- Short lead length (3.4mm, module bottom to pin end)

#### 应用

- Industrial fan
- Washing machine
- Air conditioner
- Pump

#### 优势

- Good heat dissipation with DBC (low thermal resistance)
- Using the latest tech to optimize loss, good EMI
- PCB size reduce with compact sized packaged
- Adjustable OCP level
- Multi function integrated for compact design, cost optimization
- More accurate module temperature measurement by embedded NTC
- Module assembly to PCB more closely to reduce stress from vibration

#### 终端产品

- Industrial fan
- Washing machine
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- Pump

#### 器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Family	Type	Substrate	Input Logic	Rated Voltage Min (V)	$I_o @ 25^\circ C$ Min (A)	$V_{CE(sat)} @ 25^\circ C$ Typ (V)	$R_{DS(on)}$ ( $\Omega$ )	Emitter Configuration	Shutdown Pin	Mounting Type	Package Type
NFAQ1060L36T	6.2398	Pb-free	NEW	Compact IPM Series	Inverter	DBC	Active High	600	10	1.9	N/A	3 emitter pins	Yes	DIP	DIP38, 29.6x18.2 EP-4

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