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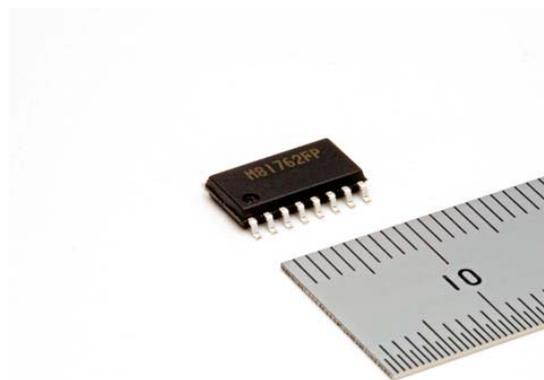
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Mitsubishi Electric to Launch Dual Low-side Driver with Over-current Detection

Will promote downsizing through one-chip control of interleave systems

TOKYO, Nov 5, 2014 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today it will launch a dual low-side driver with over-current detection to drive power modules in inverter systems and air-conditioning systems. Dual inputs and outputs on the same chip achieve an interleave control system that cancels current ripples by 180-degree phase difference in divided power supplies for high efficiency and low noise. Sales will begin on November 17.



M81762FP dual low-side driver with over-current detection

Product Features

- 1) ***One-chip interleave system contributes to system downsizing***
 - One-chip control achieved with dual inputs and outputs suitable for interleave control system.
- 2) ***Simplified system design using built-in over-current detection circuit***
 - Built-in over-current detection circuit reduces external components and simplifies system design.
 - Detection of over-current or under-voltage lockouts can be signaled, thanks to a built-in fault signal output (Failure Output) function and a capacitor with a failure-output pulse width timer function.
- 3) ***High tolerance to switching noise for highly reliable inverter system***
 - Low-impedance buried layers for reduced noise in the IC chip result in high immunity to latch-ups (malfunction caused by various elements on one chip influencing each other) when switching.

Sale Schedule

Product	Model	Shipment
Dual low-side driver with over-current detection	M81762FP	Nov. 17, 2014

Main Specifications

Model number	M81762FP
Breakdown voltage	24V
Output current	-0.8A, +1.75A
Low side circuit current	0.8mA
Package type	16P2N
Functions	<ul style="list-style-type: none">• Dual input I/F suitable for 3.3V/5V signal (IN1, IN2)• Dual outputs to drive power modules (OUT1, OUT2)• Dual over-current detection (CIN1, CIN2)• Under-voltage lockout (UV)• Failure output (FO)• Capacitor with FO pulse width timer (CFO)

Environmental Awareness

The M81762FP is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,054.3 billion yen (US\$ 39.3 billion*) in the fiscal year ended March 31, 2014. For more information visit <http://www.MitsubishiElectric.com>

*At an exchange rate of 103 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2014