



Microsemi Announces DSCC Qualification of New Radiation-Hardened Power MOSFET Product Line for Space Applications

IRVINE, Calif., Aug 12, 2009 (GlobeNewswire via COMTEX News Network) -- Microsemi Corporation (Nasdaq:MSCC), a leading manufacturer of high performance analog/mixed signal integrated circuits and high reliability semiconductors, announced today that space-level qualification has been granted by the Defense Supply Center Columbus (DSCC) on Microsemi's first family of radiation-hardened power MOSFET devices.

With this initial product qualification, Microsemi is releasing a full line of space level radiation-hardened power MOSFET devices to complement its existing line of high reliability, non radiation-hardened, hermetic MOSFETs that already have QML qualification from DSCC.

The DSCC-approved JANSF2N7382 and the JANSF2N7389 qualifications confirm that Microsemi's 100V, P-Channel Power MOSFETs are radiation hardened to meet the total dose requirements of MIL-PRF-19500/615 and MIL-PRF-19500/630 up to 300,000 RAD(Si).

"We are extremely pleased to have received these qualifications from DSCC, enabling us to launch this new product line," said Doug Milne, Vice President and General Manager of Microsemi's Lawrence, Massachusetts facility. He added; "Space customers have been searching for alternatives in the radiation hardened MOSFET market and now Microsemi has stepped up to support this demand."

Microsemi also announced the immediate release of a family of 10 other radiation hardened power MOSFETs as standard products while their DSCC qualifications are in process. All devices are constructed to meet the demanding requirements of space applications. Radiation hardened MOSFETs are primarily used in power supplies, power converters, motor controls, and other power switching applications. These products use the latest wafer fabrication technologies developed in Microsemi's Garden Grove, CA facility.

Features include:

- * Total dose hardened to 300K RAD(Si)
- * 100V & 200V N-Channel devices
- * Standard hermetic package outlines in both through-hole and surface mount configurations
- * Fast switching
- * Low gate charge
- * Single event hardened

The new Microsemi Space Level Radiation Hardened MOSFET Product Line:

MIL-PRF-19500 Qualified Devices:

Part Number	BVDSS	RDS(ON)	I(D)	Channel	Package	MIL-PRF-19500
JANSF2N7382	100V	0.18 ohm	11A	P	T0-257AA	/615
JANSF2N7389	100V	0.30 ohm	6.5A	P	T0-205AF (T0-39)	/630
JANSF2N7389U	100V	0.30 ohm	6.5A	P	18 Pin leadless chip carrier	/630



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Microsemi Standard Products (MIL-PRF-19500 Qualifications in process):

MSF2N7261	100V	0.18 ohm	8A	N	T0-205AF (T0-39)	/601 (Ref only)
MSF2N7261U	100V	0.18 ohm	8A	N	18 Pin leadless chip carrier	/601 (Ref only)
MSF2N7380	100V	0.18 ohm	14.4A	N	T0-257AA	/614 (Ref only)
MSF2N7268	100V	0.065 ohm	34A	N	T0-254AA	/603 (Ref only)
MSF2N7268U	100V	0.065 ohm	34A	N	SMD-1 (surface mount)	/603 (Ref only)
MSF2N7262	200V	0.35 ohm	5.5A	N	T0-205AF (T0-39)	/601 (Ref only)
MSF2N7262U	200V	0.35 ohm	5.5A	N	18 Pin leadless chip carrier	/601 (Ref only)
MSF2N7381	200V	0.40 ohm	9.4A	N	T0-257AA	/614 (Ref only)
MSF2N7269	200V	0.10 ohm	26A	N	T0-254AA	/603 (Ref only)
MSF2N7269U	200V	0.10 ohm	26A	N	SMD-1 (surface mount)	/603 (Ref only)

All products are offered up to Radiation Hardness Assurance (RHA) Level F (Total ionizing dose 300K RAD(Si). All lower total dose levels are also available:

RHA Prefix	Total Ionizing Dose Level
M	3K RAD(Si)
D	10K RAD(Si)
P	30K RAD(Si)
L	50K RAD(Si)
R	100K RAD(Si)
F	300K RAD(Si)

A full description of these devices and technical data sheets are available on the Microsemi website: www.microsemi.com.

About Microsemi

Microsemi Corporation, with corporate headquarters in Irvine, California, is a leading designer, manufacturer and marketer of high performance analog and mixed-signal integrated circuits and high reliability semiconductors. The company's semiconductors manage and control or regulate power, protect against transient voltage spikes and transmit, receive and amplify signals.

Microsemi's products include individual components as well as integrated circuit solutions that enhance customer designs by improving performance and reliability, battery optimization, reducing size or protecting circuits. The principal markets the company serves include implanted medical, defense/aerospace and satellite, notebook computers, monitors and LCD TVs, automotive and mobile connectivity applications. More information may be obtained by contacting the company directly or by visiting its website at <http://www.microsemi.com>.

The Microsemi Corporation logo is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=1233>

PLEASE READ THE FOLLOWING FACTORS THAT CAN MATERIALLY AFFECT MICROSEMI'S FUTURE RESULTS.

"Safe Harbor" Statement under the Private Securities Litigation Reform Act of 1995: Any statements set forth in this news

release that are not entirely historical and factual in nature, including without limitation statements concerning the space-level qualification that has been granted by the Defense Supply Center Columbus (DSCC) on our first family of radiation-hardened power MOSFET devices, are forward-looking statements. These forward-looking statements are based on our current expectations and are inherently subject to risks and uncertainties that could cause actual results to differ materially from those expressed in the forward-looking statements. The potential risks and uncertainties include, but are not limited to, such factors as rapidly changing technology and product obsolescence, potential cost increases, variations in customer order preferences, weakness or competitive pricing environment of the marketplace, uncertain demand for and acceptance of the company's products, adverse circumstances in any of our end markets, results of in-process or planned development or marketing and promotional campaigns, difficulties foreseeing future demand, potential non-realization of expected orders or non-realization of backlog, product returns, product liability, and other potential unexpected business and economic conditions or adverse changes in current or expected industry conditions, difficulties and costs of protecting patents and other proprietary rights, inventory obsolescence and difficulties regarding customer qualification of products. In addition to these factors and any other factors mentioned elsewhere in this news release, the reader should refer as well to the factors, uncertainties or risks identified in the company's most recent Form 10-K and all subsequent Form 10-Q reports filed by Microsemi with the SEC. Additional risk factors may be identified from time to time in Microsemi's future filings. The forward-looking statements included in this release speak only as of the date hereof, and Microsemi does not undertake any obligation to update these forward-looking statements to reflect subsequent events or circumstances.

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