IR Expands Offering of QPL-Certified Schottky Rectifiers for Space Applications

International Rectifier today announced the expansion of the company's offering of high reliability Schottky rectifiers in accordance with the Defense Logistics Agency (DLA) Land and Maritime Qualified Products List (QPL) for space applications including satellite bus power systems and payload power supplies.

The QPL-certified devices are available in 45 V and 100 V reverse recovery voltage, rated from 15 A to 45 A current, and offered in a TO-254, TO-257, TO-258 or SMD0.5 hermetic package in a choice of single device, doubler or common cathode configurations.

Schottky rectifiers are used primarily in the output stage of a switching power supply. Delivering very low forward voltage drops (Vf) and fast turn-off characteristics (trr), these new devices minimize conduction and switching losses in power supply designs.

"The new family of devices extends IR's offering of QPL-qualified Schottky rectifiers, providing greater design flexibility for power system designers of satellite power distribution and payload power supplies. With a certified qualification and manufacturing process, the new devices eliminate the need for Source Control Drawings (SCDs) and their associated cost and time-to-market," said Odile Ronat, discrete marketing manager, HiRel Business Unit.

The Qualified Parts List (QPL) is the U.S. Department of Defense's list of qualified semiconductor products produced by qualified suppliers in accordance with MIL-PRF-19500 screening requirements. Suppliers are audited periodically, thus assuring

that all customers receive products that meet government standards.

Specifications

Part Number	Slash Sheet	IR Standard Part Number	Package	Circuit	VR (V)	IF(AV) (A)	@ TC	VF @ IF @ 25C
JANS1N6660DT1	608	22DGQ045	TO-254AA	Doubler	45	25	100	0.82(25A)
JANS1N7071CCT8	764	60CKQ045	TO-258AA	Common Cathode	45	45	124	0.71(25A)
JANS1N6844U3	679	15LJQ100	SMD-0.5	Single Device	100	15	100	0.91
JANS1N7070CCT3	763	16CYQ100	TO-257AA	Common Cathode	100	16	131	0.75
JANS1N7043CAT1	730	15JGQ100	TO-254AA	Single Device	100	35	84	1.3
JANS1N7062CCT1	762	35CGQ100	TO-254AA	Common Cathode	100	35	113	0.79(15A)

Datasheets are available on the International Rectifier website at www.irf.com [1]

Availability and Pricing

Pricing ranges from US $263 for the JANS1N6660DT1 to US $350 for the JANS1N7070CCT3 each in100-unit quantities. Production orders are available immediately. Prices are subject to change. These products are subject to U.S. export control laws and regulations.

Source URL (retrieved on *12/08/2013 - 7:00pm*):
http://www.ecnmag.com/product-releases/2011/02/ir-expands-offering-qpl-certified-schottky-rectifiers-space-applications?qt-recent_content=0

Links:
[1] http://www.irf.com