



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16475

Generic Copy

Issue Date: 19-May-2010

TITLE: Final Notification Goodark Qualification of Ultrafast Rectifier Axial-Lead Products

PROPOSED FIRST SHIP DATE: 19-Aug-2010

AFFECTED CHANGE CATEGORY(S): Assembly & Test Site

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Mike Schager<mike.schager@onsemi.com>

SAMPLES:

Contact your local ON Semiconductor Sales Office or Mike Schager<mike.schager@onsemi.com>

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Laura Rivers<laura.rivers@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

This FPCN 16475 (a follow up to FPCN 16445) announces ON Semiconductor has qualified Goodark Electronics Co. Ltd for halide-free Axial-Lead devices in the following technology: Ultrafast Rectifiers. Goodark is located in Suzhou, China and is TS16949, ISO-9001 and ISO-14001 certified.



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RELIABILITY DATA SUMMARY:

Devices selected with highest voltages and largest die sizes.

Reliability Test Results:**MUR1100ERLG Rectifier Ultrafast**

Test	Condition	Interval	Results
HTRB	Ta=150C,80% Rated Voltage	1008 hrs	0/80
Autoclave	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC	Ta= -65 C to 150 C	1000 cyc	0/80
RSH	Ta=260C, 10 sec dwell		0/30
SD	Ta = 245, 10 sec dwell		0/30
Resistance to Solvents	Marking Perm per JESD22 B107		0/10
Terminal Strength	MIL STD 750 Method 2036		0/15
DPA	post H3TRB		0/2

MUR4100ERLG Rectifier Ultrafast

Test	Condition	Interval	Results
HTRB	Ta=150C,80% Rated Voltage	1008 hrs	0/80
Autoclave	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC	Ta= -65 C to 150 C	1000 cyc	0/80
RSH	Ta=260C, 10 sec dwell		0/30
SD	Ta = 245, 10 sec dwell		0/30
Resistance to Solvents	Marking Perm per JESD22 B107		0/10
Terminal Strength	MIL STD 750 Method 2036		0/15
DPA	post H3TRB		0/2

MBR3100RLG Rectifier Schottky

Test	Condition	Interval	Results
HTRB	Ta=90C,80% Rated Voltage	1008 hrs	0/80
Autoclave	Ta=121C RH=100% ~15 psig	96 hrs	0/80
H3TRB	Ta=85C RH=85% bias=80% rated V or100V Max	1008 hrs	0/80
IOL	Ta=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	0/80
TC	Ta= -65 C to 150 C	1000 cyc	0/80
RSH	Ta=260C, 10 sec dwell		0/80
SD	Ta = 245, 10 sec dwell		0/30
Resistance to Solvents	Marking Perm per JESD22 B107		0/10
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ELECTRICAL CHARACTERISTIC SUMMARY:

There are no changes in electrical characteristics and product performance meets data sheet specifications.

CHANGED PART IDENTIFICATION:

Devices from Goodark, identified with GA site code marking, may be produced starting with date code 1033.



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List of affected General Parts:

PART	
MUR105G	MUR260G
MUR105RLG	MUR260RLG
MUR1100EG	MUR405G
MUR1100ERLG	MUR4100EG
MUR110G	MUR4100ERLG
MUR110RLG	MUR410G
MUR115G	MUR410RLG
MUR115RLG	MUR415G
MUR120G	MUR415RLG
MUR120RLG	MUR420G
MUR130G	MUR420RLG
MUR130RLG	MUR420SG
MUR140G	MUR440G
MUR140RLG	MUR440RLG
MUR160G	MUR460G
MUR160RLG	MUR460RLG
MUR180EG	MUR480EG
MUR180ERLG	MUR480ERLG
MUR2100EG	MUR480ESG
MUR2100ERLG	MUR550APFRLG
MUR210G	SUR722LFG
MUR210RLG	SUR8115RLG
MUR220G	SUR8120RLG
MUR220RLG	SUR8160RLG
MUR240G	SUR84100ERLG
MUR240RLG	SUR8420RLG
	SUR8460RLG

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16475****List of affected Customer Specific Parts:**

PART
SUR120RLG
SUR259RLG
SUR327RLG
SUR3388LFG
SUR456ERLG
SUR460DRLG
SUR460LFG
SUR555LFG