

CERTIFICATE OF COMPLIANCE

Certificate Number 20130927-E90700A
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Issued to: FAIRCHILD SEMICONDUCTOR CORP
3030 ORCHARD PKY
SAN JOSE CA 95134

**This is to certify that
representative samples of**


COMPONENT - OPTICAL ISOLATORS

Single Protection, Optical Isolator, Models FOD8160,
FOD8161, FOD8314, FOD8316, FOD8318, FOD8320,
FOD8321, FOD8332, FOD8333, FOD8383, FOD8384, may
be followed by additional numbers and/or letters.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

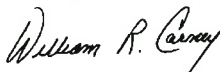
Standard(s) for Safety: Standard for Optical Isolators UL 1577
Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

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January 12, 2012

REPORT

on

COMPONENT - Optical Isolators

Fairchild Semiconductor Corp
SAN JOSE, CA

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DESCRIPTION

PRODUCT COVERED:

USR, **CNR** - Single Protection, Optical Isolator, Models FOD8160, FOD8161, FOD8314, FOD8316, FOD8318, FOD8320, FOD8321, FOD8332, FOD8333, FOD8383, FOD8384, may be followed by additional numbers and/or letters.

MAXIMUM PER CHANNEL RATINGS (at 25°C) (\$):

Model	Current (mA)		Power (mW)		Isolation Voltage (Vac)	Max Operating (Ambient) Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)
	Emitter	Sensor	Emitter	Sensor				
FOD8160	25	50	45	250	5000	100	125	125
FOD8161	25	50	45	250	5000	100	125	125
FOD8314	25	2500	45	500	5000	100	125	125
FOD8316	-	-	100	600	4243	100	125	125
FOD8318	-	-	100	600	4243	100	125	125
FOD8320	25	2500	45	500	5000	100	125	125
FOD8321	25	2500	45	500	5000	100	125	125
FOD8332	-	-	100	600	4243	100	125	125
FOD8333	-	-	100	600	4243	100	125	125
FOD8383	25	2500	45	500	5000	100	125	125
FOD8384	25	2500	45	500	5000	100	125	125

(\$) - For ambient temperatures higher than 25°C and up to T_{moa}, refer to manufacturer's specifications and/or thermal derating curve data for complete electrical ratings.

GENERAL:

These devices are photocoupled isolators consisting of a photo-emitter such as a light emitting diode, optically coupled to a photo-sensor, such as a transistor. The emitter and sensor are separated by an insulating window. Internal "chips" are connected to lead frames that are molded into the enclosure.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

USR indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, Fourth Edition.

CNR indicates this product was investigated under the Canadian Certification Notice, CSA Component Acceptance Service No. 5A.

Conditions of Acceptability - Each device shall be reviewed with respect to the following conditions of acceptability:

1. The capability of the device to control a load has not been investigated.
2. These devices should be installed in a suitable end product enclosure.
3. If the maximum operating ambient temperature is exceeded, as noted in the ratings table, additional means should be used to determine if the maximum junction temperature of the device is exceeded. It may be helpful to review the electrical specifications for derating information.
4. For single protection devices, the insulation to the case has not been evaluated.

CONSTRUCTION DETAILS:

General - The product shall be constructed in accordance with the following description. All dimensions are approximate, unless specified as "max" or "min".

ILLUSTRATION	DESCRIPTION
Ill. 1	Models FOD8160 and FOD8161 - Device Pin Configuration
Ill. 2	Package Dimensions