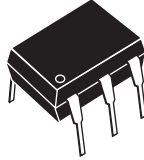




H11C4M
PHOTO SCR OPTOCOUPLER



DIP-6 CASE

APPLICATIONS:

- Communications equipment
- Solid state relays
- Portable equipment
- Low power logic circuits requiring a high degree of input/output isolation

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Isolation Voltage
Isolation Resistance (@ $V_{IO}=500\text{V}$)
Operating Temperature Range
Storage Temperature Range

INPUT MAXIMUM RATINGS (LED): ($T_A=25^\circ\text{C}$)

Continuous Forward Current
Continuous Reverse Voltage
Peak Forward Surge Current ($t_p=1\mu\text{s}$)
Power Dissipation

OUTPUT MAXIMUM RATINGS (SCR): ($T_A=25^\circ\text{C}$)

Peak Repetitive Off-State Voltage
Peak Reverse Gate Voltage
RMS On-State Current
Peak On-State Current ($t_p=100\mu\text{s}$)
Peak One Cycle Surge ($t_p=10\text{ms}$)

INPUT ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=3.0\text{V}$			10	μA
V_F	$I_F=10\text{mA}$			1.5	V
C_J	$V_R=0\text{V}$, $f=1.0\text{MHz}$		50		pF

CentralTM

Semiconductor Corp.

DESCRIPTION:

The Central Semiconductor H11C4M is a gallium-arsenide infrared emitting Diode optically coupled with a light activated silicon controlled rectifier in a DIP-6 dual-in-line package. This device is designed for applications requiring a high degree of isolation between triggering and load circuits.

MARKING: H11C4M

FEATURES:

- Forward current $I_F=50\text{mA MAX}$ (Input)
- On-State current $I_{T(RMS)}=150\text{mA}$ (Input)
- Reverse current $I_R=10\mu\text{A MAX}$ (Input)
- Blocking voltage V_{DRM} , $V_{RRM}=400\text{V MAX}$ (Output)
- Isolation test voltage $5000V_{RMS}$

SYMBOL		UNITS
V_{ISO}	5000	V_{RMS}
R_{ISO}	10^{11}	Ω
T_J	-30 to +100	$^\circ\text{C}$
T_{stg}	-55 to +125	$^\circ\text{C}$

SYMBOL		UNITS
I_F	50	mA
V_R	5.0	V
I_{FSM}	1.0	A
P_D	75	mW

SYMBOL		UNITS
V_{DRM} , V_{RRM}	400	V
V_{RGM}	6.0	V
$I_{T(RMS)}$	150	mA
I_T	10	A
I_{TSM}	5.0	A

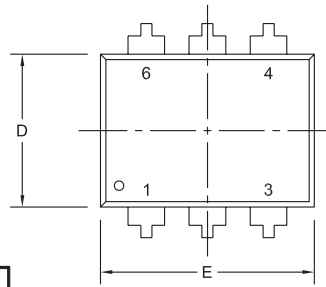
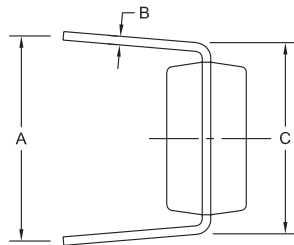
OUTPUT ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{DRM}, I_{RRM}	$V_{DRM}, V_{RRM}=400\text{V}, R_{GK}=10\text{k}\Omega, T_A=100^\circ\text{C}$		150	μA
V_{TM}	$I_{TM}=100\text{mA}$		1.3	V
I_{GT}	$V_D=100\text{V}, R_L=10\text{k}\Omega$		50	μA
V_{GT}	$V_D=100\text{V}, R_L=10\text{k}\Omega$		1.0	V
I_H	$I_T=100\text{mA}, R_{GK}=27\text{k}\Omega$		500	μA

COUPLER ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

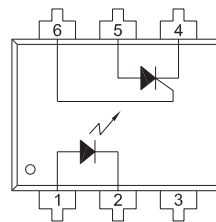
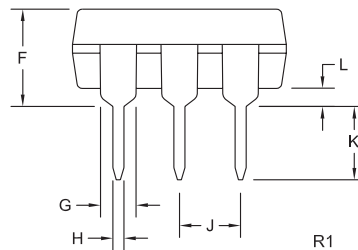
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{FT}	$V_{AK}=50\text{V}, R_{GK}=10\text{k}\Omega$		20	mA
I_{FT}	$V_{AK}=100\text{V}, R_{GK}=27\text{k}\Omega$		11	mA

DIP-6 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.300	0.347	7.62	8.81
B	0.008	0.016	0.20	0.41
C	0.300		7.62	
D	0.240	0.270	6.10	6.86
E	0.292	0.308	7.42	7.82
F	0.115	0.200	2.92	5.08
G	0.045	0.070	1.14	1.78
H	0.016	0.022	0.41	0.56
J	0.100		2.54	
K	0.100	0.154	2.54	3.91
L	0.020	-	0.51	-

DIP-6 (REV: R1)



LEAD CODE:

- 1) ANODE (LED)
- 2) CATHODE (LED)
- 3) NO CONNECTION
- 4) CATHODE (SCR)
- 5) ANODE (SCR)
- 6) GATE (SCR)

MARKING: H11C4M

R2 (8-December 2008)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01031
Notification Date:	8/08/16
Last Buy Date:	2/08/17
Last Shipment Date	8/08/17

Summary: The H11C4M Photo SCR Optocoupler is being discontinued due to low demand and is now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
H11C4M	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.