

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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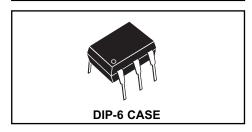






H11C4M

PHOTO SCR OPTOCOUPLER



APPLICATIONS:

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

Central [™]	
Semiconductor Corp.	

DESCRIPTION:

The Central Semiconductor H11C4M is a galliumarsenide 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=50mA MAX (Input)
- On-State current I_{T(RMS)}=150mA (Input)
- Reverse current I_R=10µA MAX (Input)
- Blocking voltage V_{DRM} , V_{RRM} =400V MAX (Output)
- Isolation test voltage 5000V_{RMS}

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MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS			
Isolation Voltage	V _{ISO}	5000	v_{RMS}			
Isolation Resistance (@ V _{IO} =500V)	R _{ISO}	10 ¹¹	Ω			
Operating Temperature Range	T_J	-30 to +100	O °C			
Storage Temperature Range	T _{stg}	-55 to +125	5 °C			
INPUT MAXIMUM RATINGS (LED): (TA=	25°C) SYMBOL		UNITS			
Continuous Forward Current	l _F	50	mA			
Continuous Reverse Voltage	V _R	5.0	V			
Peak Forward Surge Current (tp=1µs)	I _{FSM}	1.0	Α			
Power Dissipation	P _D	75	mW			
OUTPUT MAXIMUM RATINGS (SCR): (T	_Δ =25°C) SYMBOL		UNITS			
Peak Repetitive Off-State Voltage	V _{DRM} , V _{RRM}	400	V			
Peak Reverse Gate Voltage	V _{RGM}	6.0	V			
RMS On-State Current	I _T (RMS)	150	mA			
Peak On-State Current (tp=100µs)	I _T	10	Α			
Peak One Cycle Surge (tp=10ms)	ITSM	5.0	Α			
INPUT ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)						
SYMBOL TEST CONDITIONS	MIN	TYP I	MAX UNITS			
	MIN	TYP I	MAX UNITS 10 µA			
	MIN					

R2 (8-December 2008)



H11C4M

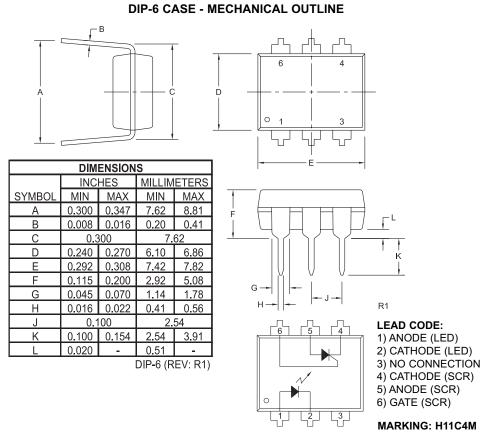
PHOTO SCR OPTOCOUPLER

$\textbf{OUTPUT ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C unless otherwise noted})$

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _{DRM} , I _{RRM}	V_{DRM} , V_{RRM} =400V, R_{GK} =10k Ω , T_{A} =100°C		150	μΑ
V_{TM}	I _{TM} =100mA		1.3	V
I _{GT}	$V_D = 100V$, $R_L = 10k\Omega$		50	μA
V _{GT}	$V_D = 100V$, $R_L = 10k\Omega$		1.0	V
I _H	$I_T=100$ mA, $R_{GK}=27$ k Ω		500	μA

$\textbf{COUPLER ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize M}} = 25 \mbox{\ensuremath{}^{\circ}\mbox{\scriptsize C}} \ unless \ otherwise \ noted)$

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _{FT}	V_{AK} =50V, R_{GK} =10k Ω		20	mA
IFT	$V_{\Delta K}=100V$, $R_{GK}=27k\Omega$		11	mA



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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

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