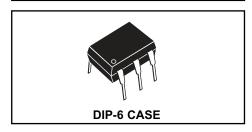


H11C4M

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 +1	00	°C			
Storage Temperature Range	T _{stg}	-55 to +1	25	°C			
INPUT MAXIMUM RATINGS (LED): (T _A =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 _A =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)	^I TSM	5.0		Α			
INPUT ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)							
SYMBOL TEST CONDITIONS	MIN	TYP	MAX	UNITS			
I_R V_R =3.0V			10	μΑ			
V _F I _F =10mA			1.5	V			
C_J $V_R=0V$, $f=1.0MHz$		50		pF			

R2 (8-December 2008)



H11C4M

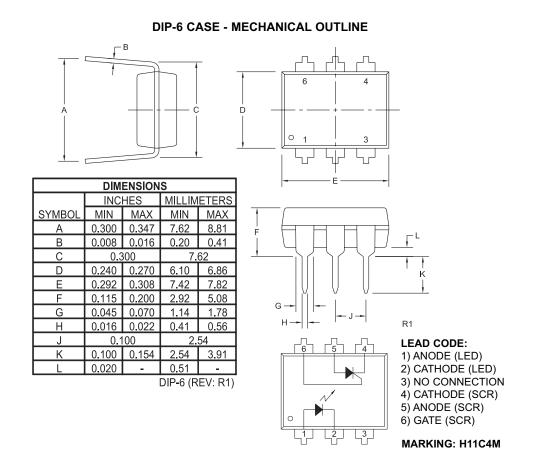
PHOTO SCR OPTOCOUPLER

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

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

COUPLER ELECTRICAL CHARACTERISTICS: (T_A=25°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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