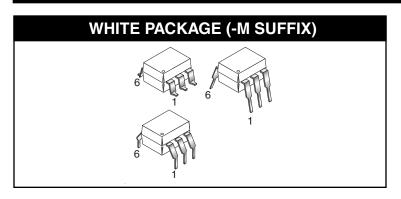
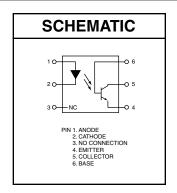


 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5







#### **DESCRIPTION**

The general purpose optocouplers consist of a gallium arsenide infrared emitting diode driving a silicon phototransistor in a 6-pin dual in-line package.

#### **FEATURES**

- UL recognized (File # E90700)
- VDE recognized (File # 94766)
  - Add option V for white package (e.g., 4N25V-M)
  - Add option 300 for black package (e.g., 4N25.300)
- · Also available in white package by specifying -M suffix, eg. 4N25-M

#### **APPLICATIONS**

- Power supply regulators
- · Digital logic inputs
- Microprocessor inputs



 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5

Parameter	Symbol	Value	Units	
TOTAL DEVICE				
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C	
Operating Temperature	T <sub>OPR</sub>	-55 to +100	°C	
Lead Solder Temperature	T <sub>SOL</sub>	260 for 10 sec	°C	
Total Device Power Dissipation @ T <sub>A</sub> = 25°C	P <sub>D</sub>	250	mW	
Derate above 25°C	l 'D	3.3 (non-M), 2.94 (-M)	1 mvv	
EMITTER				
DC/Average Forward Input Current	I <sub>F</sub>	100 (non-M), 60 (-M)	mA	
Reverse Input Voltage	V <sub>R</sub>	6	٧	
Forward Current - Peak (300µs, 2% Duty Cycle)	I <sub>F</sub> (pk)	3	Α	
LED Power Dissipation @ T <sub>A</sub> = 25°C	P <sub>D</sub>	150 (non-M), 120 (-M)	mW	
Derate above 25°C	l 'D	2.0 (non-M), 1.41 (-M)	mW/°C	
DETECTOR				
Collector-Emitter Voltage	V <sub>CEO</sub>	30	V	
Collector-Base Voltage	V <sub>CBO</sub>	70	٧	
Emitter-Collector Voltage	V <sub>ECO</sub>	7	٧	
Detector Power Dissipation @ T <sub>A</sub> = 25°C	Ь	150	mW	
Derate above 25°C	P <sub>D</sub>	2.0 (non-M), 1.76 (-M)	mW/°C	



4N25	4N26	4N27	4N28	4N35	4N36
4N37	H11A1	H11A2	H11A3	H11A4	H11A5

# **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

INDIVIDUAL COMPONENT CHARACTERISTICS						
Parameter	Test Conditions	Symbol	Min	Typ**	Max	Unit
EMITTER						
Input Forward Voltage	(I <sub>F</sub> = 10 mA)	$V_{F}$		1.18	1.50	V
Reverse Leakage Current	(V <sub>R</sub> = 6.0 V)	I <sub>R</sub>		0.001	10	μΑ
DETECTOR						
Collector-Emitter Breakdown Voltage	(I <sub>C</sub> = 1.0 mA, I <sub>F</sub> = 0)	$BV_CEO$	30	100		V
Collector-Base Breakdown Voltage	$(I_C = 100 \mu A, I_F = 0)$	BV <sub>CBO</sub>	70	120		V
Emitter-Collector Breakdown Voltage	$(I_E = 100 \mu A, I_F = 0)$	BV <sub>ECO</sub>	7	10		V
Collector-Emitter Dark Current	$(V_{CE} = 10 \text{ V}, I_F = 0)$	I <sub>CEO</sub>		1	50	nA
Collector-Base Dark Current	(V <sub>CB</sub> = 10 V)	I <sub>CBO</sub>			20	nA
Capacitance	(V <sub>CE</sub> = 0 V, f = 1 MHz)	C <sub>CE</sub>		8		pF

ISOLATION CHARACTERISTICS								
Characteristic	Test Conditions	Symbol	Min	Тур**	Max	Units		
Input-Output Isolation Voltage	(Non-'M', Black Package) (f = 60 Hz, t = 1 min)		5300			Vac(rms)*		
	('-M', White Package) (f = 60 Hz, t = 1 sec)	V <sub>ISO</sub>	7500			Vac(pk)		
Isolation Resistance	(V <sub>I-O</sub> = 500 VDC)	R <sub>ISO</sub>	10 <sup>11</sup>			Ω		
Isolation Canaditance	$(V_{I-O} = \&, f = 1 MHz)$	C		0.5		pF		
Isolation Capacitance -	('-M' White Package)	C <sub>ISO</sub>		0.2	2	pF		

#### Note

<sup>\* 5300</sup> Vac(rms) for 1 minute equates to approximately 9000 Vac (pk) for 1 second

<sup>\*\*</sup> Typical values at T<sub>A</sub> = 25°C



 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5

TRANSFER CHARACTERISTICS (T <sub>A</sub> = 25°C Unless otherwise specified.)							
DC Characteristic	Test Conditions	Symbol	Device	Min	Тур**	Max	Unit
			4N35 4N36 4N37	100			
			H11A1	50			
			H11A5	30			
	(I <sub>F</sub> = 10 mA, V <sub>CE</sub> = 10 V)	CTR	4N25 4N26 H11A2 H11A3	20			%
Current Transfer Ratio, Collector to Emitter			4N27 4N28 H11A4	10			70
	$(I_F = 10 \text{ mA}, V_{CE} = 10 \text{ V}, T_A = -55^{\circ}\text{C})$		4N35 4N36 4N37	40			
	$(I_F = 10 \text{ mA}, V_{CE} = 10 \text{ V}, T_A = +100^{\circ}\text{C})$		4N35 4N36 4N37	40			
	$(I_C = 2 \text{ mA}, I_F = 50 \text{ mA})$		4N25 4N26 4N27 4N28			0.5	
Collector-Emitter Saturation Voltage	(I <sub>C</sub> = 0.5 mA, I <sub>F</sub> = 10 mA)	V <sub>CE (SAT)</sub>	4N35 4N36 4N37			0.3	V
			H11A1 H11A2 H11A3 H11A4 H11A5			0.4	
AC Characteristic  Non-Saturated Turn-on Time	$(I_F = 10 \text{ mA}, V_{CC} = 10 \text{ V}, R_L = 100\Omega)$ (Fig.20)	T <sub>ON</sub>	4N25 4N26 4N27 4N28 H11A1 H11A2 H11A3 H11A4		2		μs
Non Saturated Turn-on Time	$(I_C = 2 \text{ mA}, V_{CC} = 10 \text{ V}, R_L = 100\Omega)$ (Fig.20)	T <sub>ON</sub>	4N35 4N36 4N37		2	10	μs



4N25	4N26	4N27	4N28	4N35	4N36
4N37	H11A1	H11A2	H11A3	H11A4	H11A5

AC Characteristic	Test Conditions	Symbol	Device	Min	Typ**	Max	Unit
Turn-off Time	$(I_F = 10 \text{ mA}, V_{CC} = 10 \text{ V}, R_L = 100\Omega)$ (Fig.20)	T <sub>OFF</sub>	4N25 4N26 4N27 4N28 H11A1 H11A2 H11A3 H11A4 H11A5		2		μs
	$(I_C = 2 \text{ mA}, V_{CC} = 10 \text{ V}, R_L = 100\Omega)$ (Fig.20)		4N35 4N36 4N37		2	10	

<sup>\*\*</sup> Typical values at  $T_A = 25$ °C



 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5

### **TYPICAL PERFORMANCE CURVES**

Fig. 1 LED Forward Voltage vs. Forward Current (Black Package)

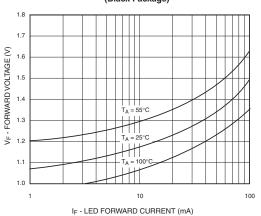


Fig.3 Normalized CTR vs. Forward Current (Black Package)

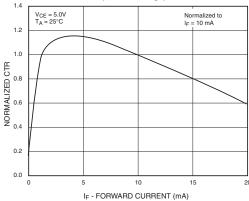


Fig. 5 Normalized CTR vs. Ambient Temperature

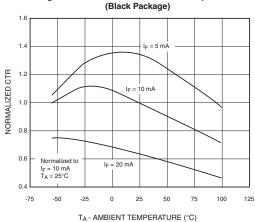


Fig. 2 LED Forward Voltage vs. Forward Current (White Package)

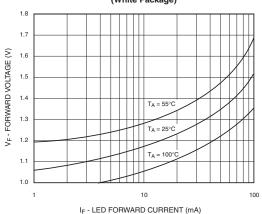


Fig.4 Normalized CTR vs. Forward Current (White Package)

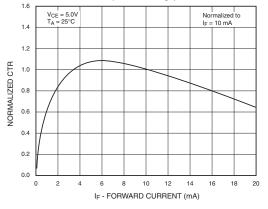
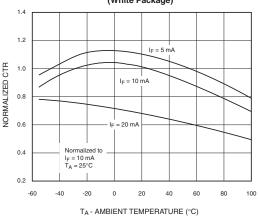


Fig. 6 Normalized CTR vs. Ambient Temperature (White Package)





4N25 4N37

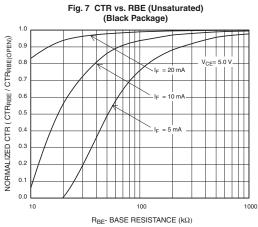
4N26 H11A1

4N27 H11A2

4N28 H11A3

4N35 H11A4

4N36 H11A5







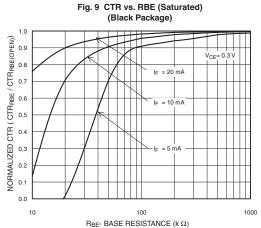


Fig. 11 Collector-Emitter Saturation Voltage vs Collector Current (Black Package)

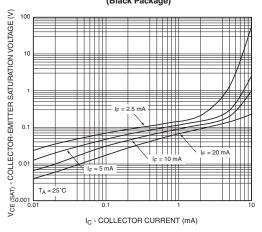


Fig. 8 CTR vs. RBE (Unsaturated) (White Package)

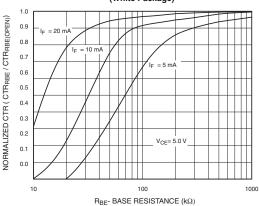


Fig. 10 CTR vs. RBE (Saturated) (White Package)

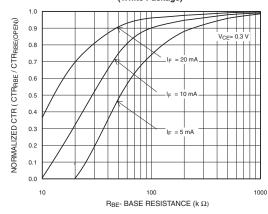
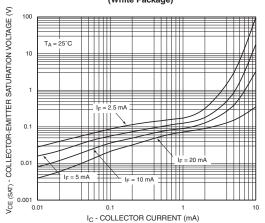


Fig. 12 Collector-Emitter Saturation Voltage vs Collector Current (White Package)





4N25 4N37 4N26 H11A1 4N27 H11A2 4N28 H11A3 4N35 H11A4 4N36 H11A5

Fig. 13 Switching Speed vs. Load Resistor (Black Package)

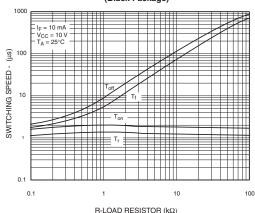


Fig. 14 Switching Speed vs. Load Resistor (White Package)

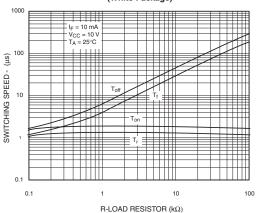


Fig. 15 Normalized t<sub>on</sub> vs. R<sub>BE</sub> (Black Package)

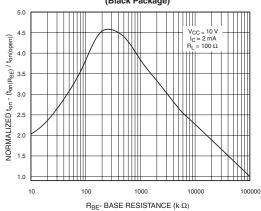


Fig. 16 Normalized t<sub>on</sub> vs. R<sub>BE</sub> (White Package)

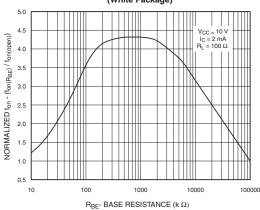


Fig. 17 Normalized toff vs. R<sub>BE</sub>

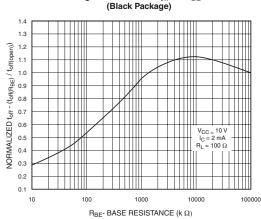
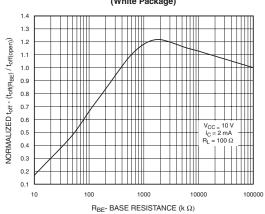


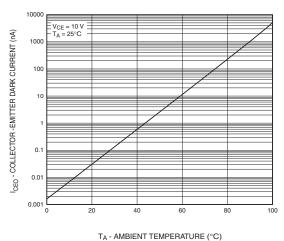
Fig. 18 Normalized t<sub>off</sub> vs. R<sub>BE</sub> (White Package)





4N25	4N26	4N27	4N28	4N35	4N36
4N37	H11A1	H11A2	H11A3	H11A4	H11A5

Fig. 19 Dark Current vs. Ambient Temperature



14 - AMBIENT TEMPERATURE (\*C)

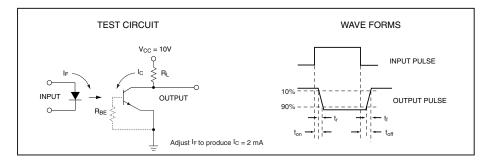


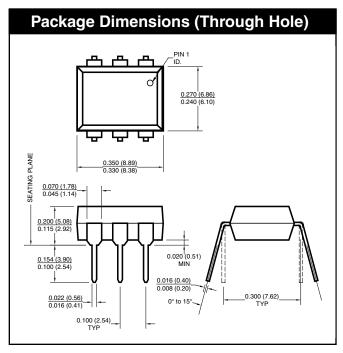
Figure 20. Switching Time Test Circuit and Waveforms

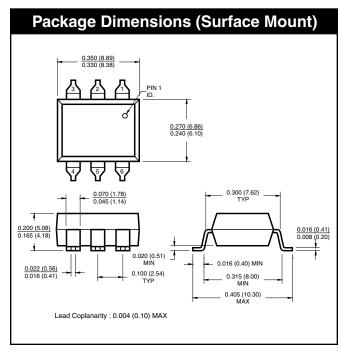


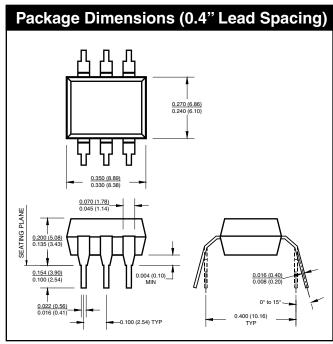
 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

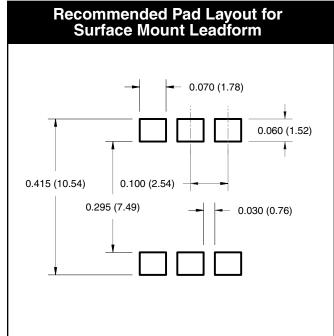
 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5

### Black Package (No -M Suffix)









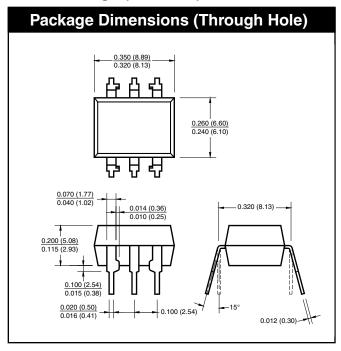
# NOTE All dimensions are in inches (millimeters)

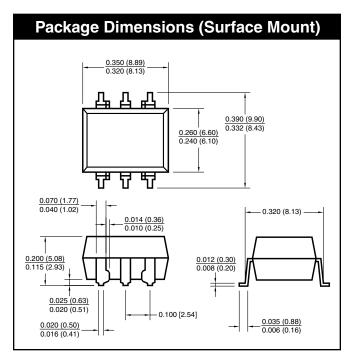


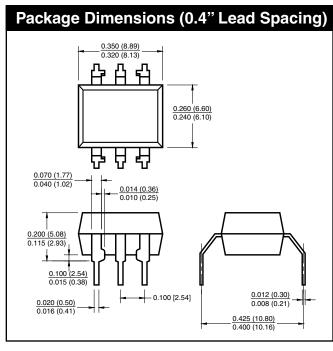
 4N25
 4N26
 4N27
 4N28
 4N35
 4N36

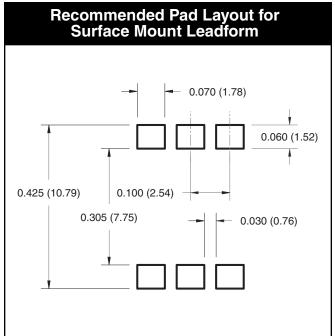
 4N37
 H11A1
 H11A2
 H11A3
 H11A4
 H11A5

### White Package (-M Suffix)









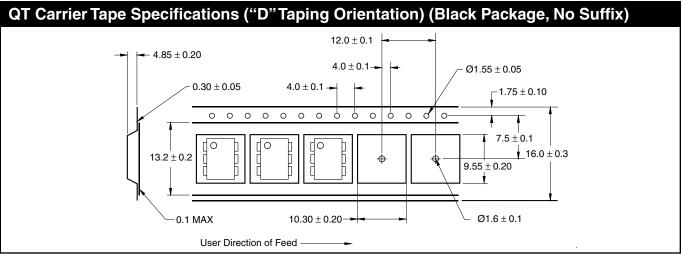
# **NOTE**All dimensions are in inches (millimeters)

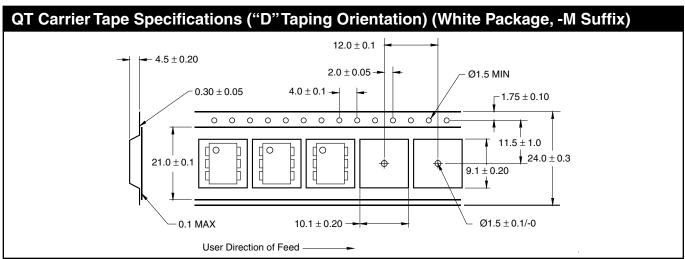


4N25	4N26	4N27	4N28	4N35	4N36
4N37	H11A1	H11A2	H11A3	H11A4	H11A5

#### ORDERING INFORMATION

Order Entry Identifier	Order Entry Identifier						
Black Package (No Suffix)	White Package (-m Suffix)	Option					
.S	S	Surface Mount Lead Bend					
.SD	SR2	Surface Mount; Tape and reel					
.W	Т	0.4" Lead Spacing					
.300	V	VDE 0884					
.300W	TV	VDE 0884, 0.4" Lead Spacing					
.3S	SV	VDE 0884, Surface Mount					
.3SD	SR2V	VDE 0884, Surface Mount, Tape & Reel					







4N25	4N26	4N27	4N28	4N35	4N36
4N37	H11A1	H11A2	H11A3	H11A4	H11A5

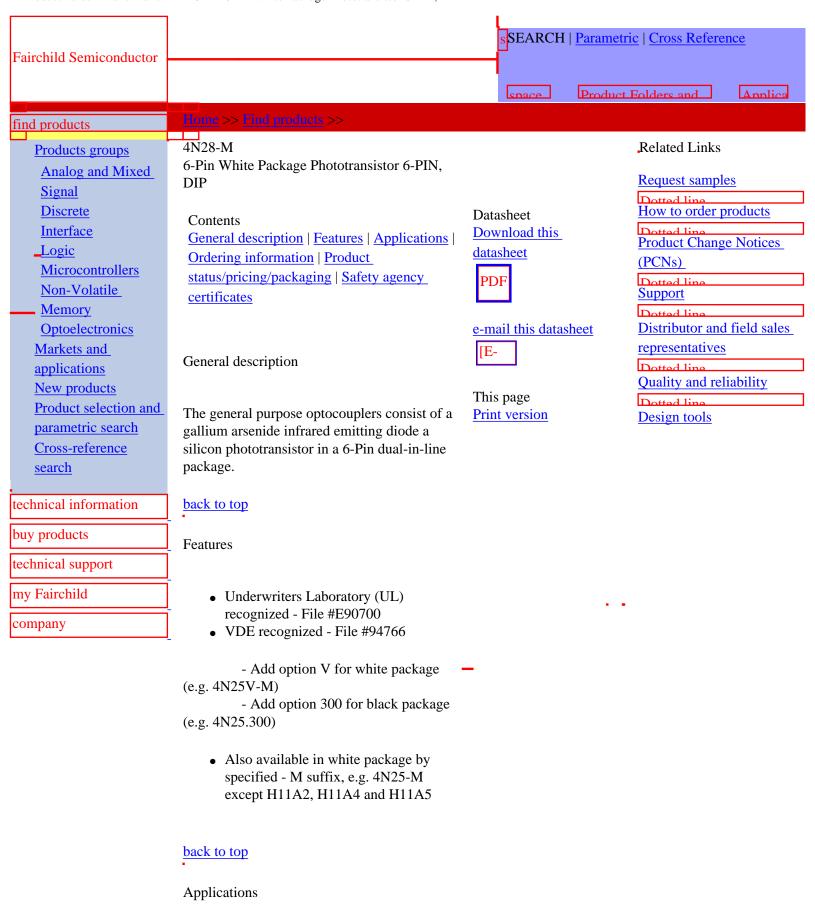
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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.



- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
300	.300	VDE 0884
3S	.3S	Option S (see below); VDE 0884
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel
R2	.R2	Opto Plus 2 Reliability Conditioning
S	.S	Surface-Mount Lead Bend
SD	.SD	Option S; Tape and Reel
W	.W	10 mm Lead Bend

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## Product status/pricing/packaging

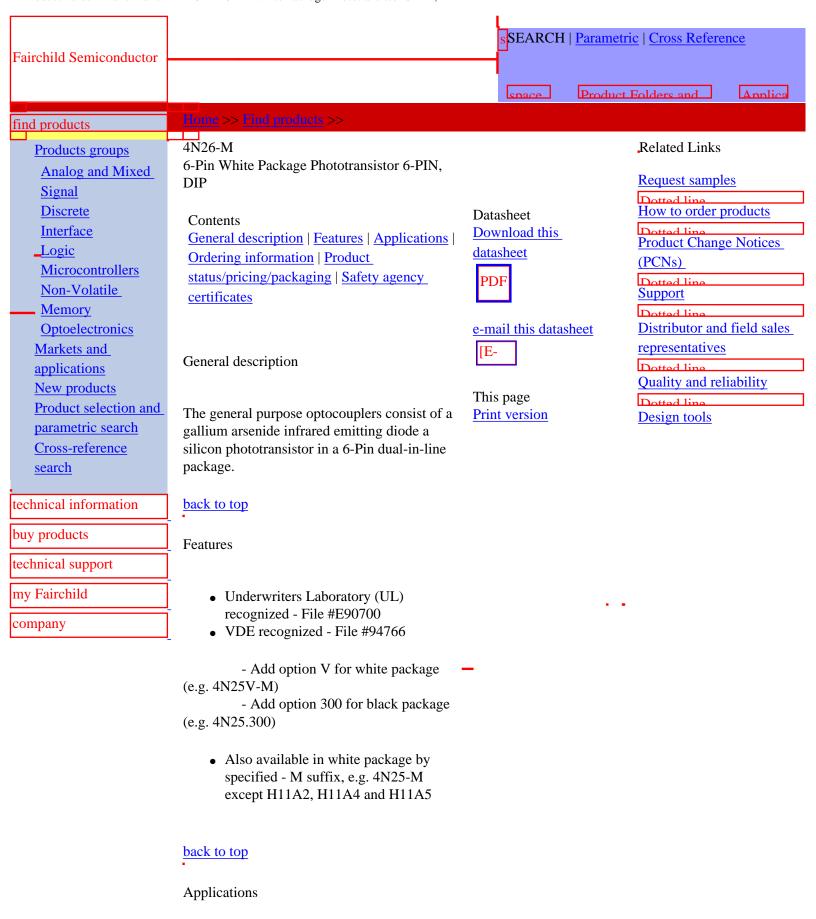
Product	Product status	Pricing*	Package type	Leads	Packing method
4N28FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N28TV-M	Full Production	\$0.132	N/A	N/A	RAIL
4N28FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N28SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N28-M	Full Production	\$0.132	N/A	N/A	RAIL
4N28F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N28V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N28T-M	Full Production	\$0.132	DIP	6	RAIL
4N28FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N28SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N28S-M	Full Production	\$0.132	DIP	6	RAIL
4N28SV-M	Full Production	\$0.132	DIP	6	RAIL

<sup>\* 1,000</sup> piece Budgetary Pricing

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Cetificate		Agency
310983-01 (95 K)	DEMKO	DEMKO Testing & Certification
P01101866 (383 K)	NEMKO	NEMKO
<u>CR/0117</u> (424 K)	BABT	British Approvals Board of Telecommunications
102497 (1629 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<u>1113639</u> (111 K)	CSA	Canadian Standards Association
<u>0134082</u> (136 K)	SEMKO	SEMKO
<u>FI 17434</u> (47 K)	FIMKO	FIMKO
E90700, Vol. 2 (254 K)	UL	Underwriters Laboratories Inc.

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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
300	.300	VDE 0884
3S	.3S	Option S (see below); VDE 0884
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel
R2	.R2	Opto Plus 2 Reliability Conditioning
S	.S	Surface-Mount Lead Bend
SD	.SD	Option S; Tape and Reel
W	.W	10 mm Lead Bend

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# Product status/pricing/packaging

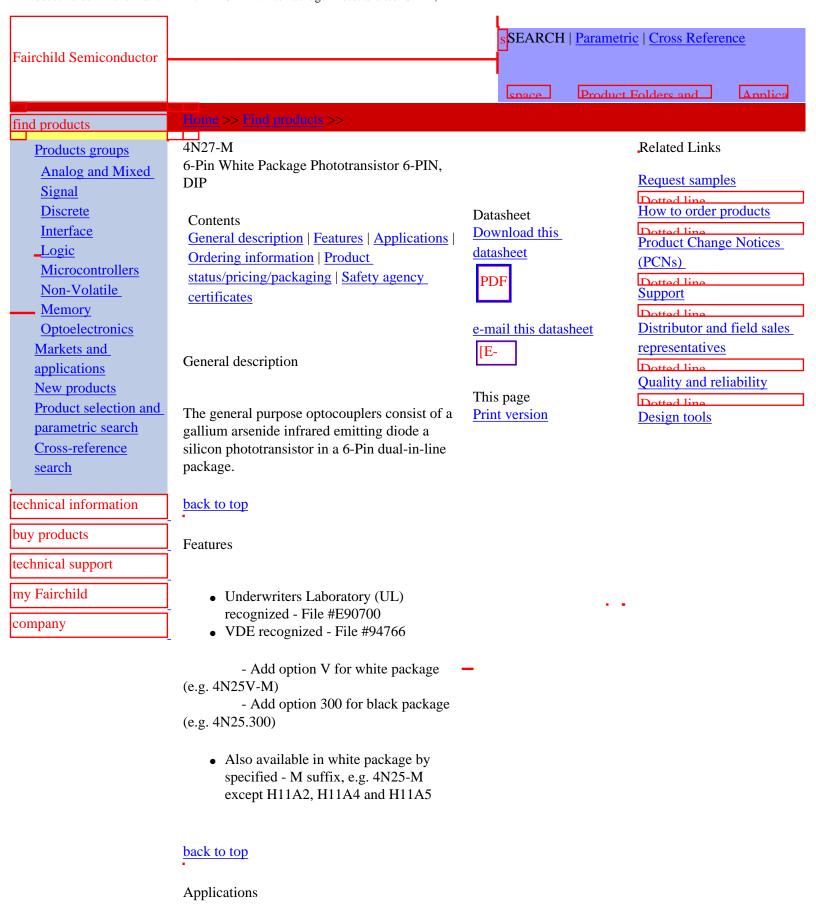
Product	Product status	Pricing*	Package type	Leads	Packing method
4N26FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N26-M	Full Production	\$0.132	N/A	N/A	RAIL
4N26FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N26SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N26V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N26SV-M	Full Production	\$0.141	DIP	6	RAIL
4N26FV-M	Full Production	\$0.176	N/A	N/A	RAIL
4N26T-M	Full Production	\$0.132	DIP	6	RAIL
4N26TV-M	Full Production	\$0.141	N/A	N/A	RAIL
4N26S-M	Full Production	\$0.132	DIP	6	RAIL
4N26F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N26SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL

<sup>\* 1,000</sup> piece Budgetary Pricing

### back to top

Cetificate		Agency
310983-01 (95 K)	DEMKO	DEMKO Testing & Certification
P01101866 (383 K)	NEMKO	NEMKO
<u>CR/0117</u> (424 K)	BABT	British Approvals Board of Telecommunications
102497 (1629 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<u>1113639</u> (111 K)	CSA	Canadian Standards Association
<u>0134082</u> (136 K)	SEMKO	SEMKO
<u>FI 17434</u> (47 K)	FIMKO	FIMKO
E90700, Vol. 2 (254 K)	UL	Underwriters Laboratories Inc.

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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
300	.300	VDE 0884
3S	.3S	Option S (see below); VDE 0884
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel
R2	.R2	Opto Plus 2 Reliability Conditioning
S	.S	Surface-Mount Lead Bend
SD	.SD	Option S; Tape and Reel
W	.W	10 mm Lead Bend

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# Product status/pricing/packaging

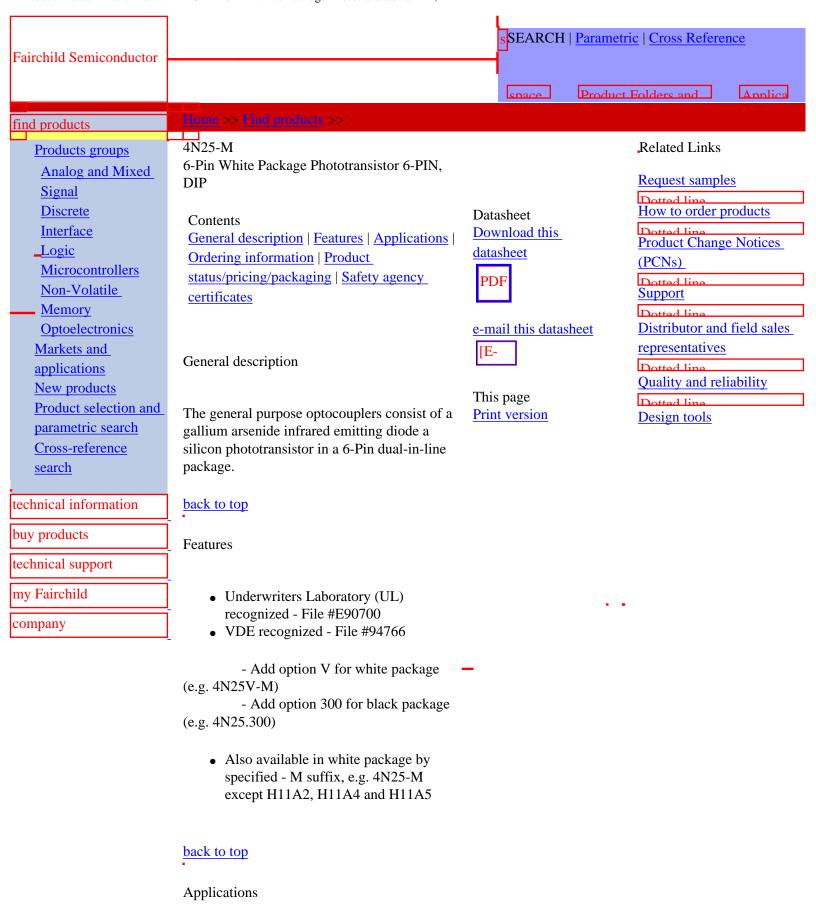
Product	Product status	Pricing*	Package type	Leads	Packing method
4N27SV-M	Full Production	\$0.132	DIP	6	RAIL
4N27FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N27SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N27SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N27S-M	Full Production	\$0.132	DIP	6	RAIL
4N27TV-M	Full Production	\$0.132	N/A	N/A	RAIL
4N27-M	Full Production	\$0.132	N/A	N/A	RAIL
4N27F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N27T-M	Full Production	\$0.132	DIP	6	RAIL
4N27FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N27FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N27V-M	Full Production	\$0.132	N/A	N/A	RAIL

<sup>\* 1,000</sup> piece Budgetary Pricing

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Cetificate		Agency
310983-01 (95 K)	DEMKO	DEMKO Testing & Certification
P01101866 (383 K)	NEMKO	NEMKO
<u>CR/0117</u> (424 K)	BABT	British Approvals Board of Telecommunications
102497 (1629 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<u>1113639</u> (111 K)	CSA	Canadian Standards Association
<u>0134082</u> (136 K)	SEMKO	SEMKO
<u>FI 17434</u> (47 K)	FIMKO	FIMKO
E90700, Vol. 2 (254 K)	UL	Underwriters Laboratories Inc.

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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
300	.300	VDE 0884
3S	.3S	Option S (see below); VDE 0884
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel
R2	.R2	Opto Plus 2 Reliability Conditioning
S	.S	Surface-Mount Lead Bend
SD	.SD	Option S; Tape and Reel
W	.W	10 mm Lead Bend

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# Product status/pricing/packaging

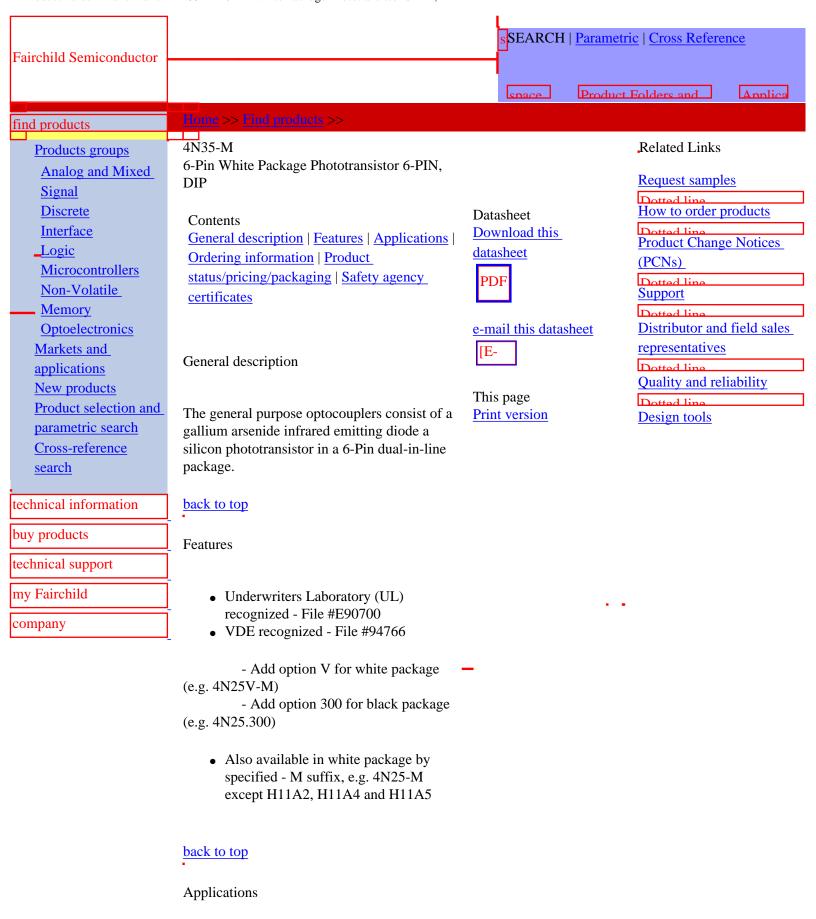
Product	Product status	Pricing*	Package type	Leads	Packing method
4N25FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N25FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N25F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N25TV-M	Full Production	\$0.132	N/A	N/A	RAIL
4N25SV-M	Full Production	\$0.132	DIP	6	RAIL
4N25T-M	Full Production	\$0.132	DIP	6	RAIL
4N25FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N25-M	Full Production	\$0.132	N/A	N/A	RAIL
4N25V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N25SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N25S-M	Full Production	\$0.132	DIP	6	RAIL
4N25SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL

<sup>\* 1,000</sup> piece Budgetary Pricing

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Cetificate		Agency
310983-01 (95 K)	DEMKO	DEMKO Testing & Certification
P01101866 (383 K)	NEMKO	NEMKO
<u>CR/0117</u> (424 K)	BABT	British Approvals Board of Telecommunications
102497 (1629 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<u>1113639</u> (111 K)	CSA	Canadian Standards Association
<u>0134082</u> (136 K)	SEMKO	SEMKO
<u>FI 17434</u> (47 K)	FIMKO	FIMKO
E90700, Vol. 2 (254 K)	UL	Underwriters Laboratories Inc.

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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description
300	.300	VDE 0884
3S	.3S	Option S (see below); VDE 0884
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel
R2	.R2	Opto Plus 2 Reliability Conditioning
S	.S	Surface-Mount Lead Bend
SD	.SD	Option S; Tape and Reel
W	.W	10 mm Lead Bend

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Product status/pricing/packaging

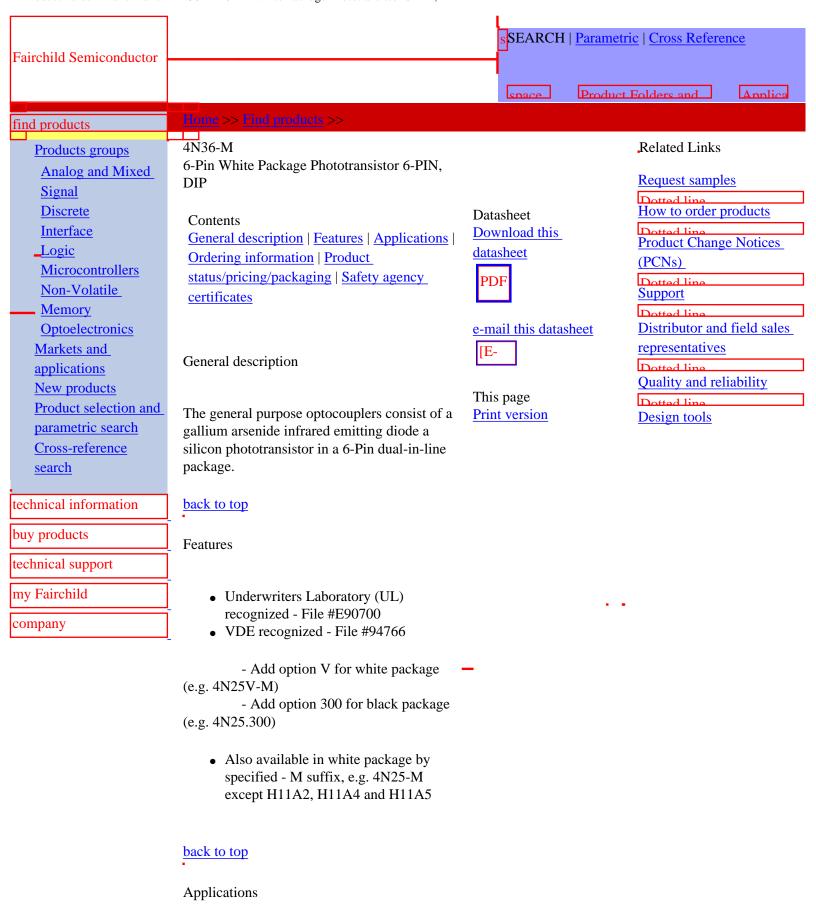
Product	Product status	Pricing*	Package type	Leads	Packing method
4N35FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N35SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N35SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N35T-M	Full Production	\$0.132	DIP	6	RAIL
4N35F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N35SV-M	Full Production	\$0.132	DIP	6	RAIL
4N35FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N35V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N35S-M	Full Production	\$0.132	DIP	6	RAIL
4N35FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N35TV-M	Full Production	\$0.132	DIP	6	RAIL
4N35-M	Full Production	\$0.132	N/A	N/A	RAIL

<sup>\* 1,000</sup> piece Budgetary Pricing

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<u>1113639</u> (111 K)	CSA	Canadian Standards Association
<u>0134082</u> (136 K)	SEMKO	SEMKO
<u>FI 17434</u> (47 K)	FIMKO	FIMKO
<u>E90700, Vol. 2</u> (254 K)	UL	Underwriters Laboratories Inc.

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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description	
300	.300	VDE 0884	
3S	.3S	Option S (see below); VDE 0884	
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel	
R2	.R2	Opto Plus 2 Reliability Conditioning	
S	.S	Surface-Mount Lead Bend	
SD	.SD	Option S; Tape and Reel	
W	.W	10 mm Lead Bend	

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# Product status/pricing/packaging

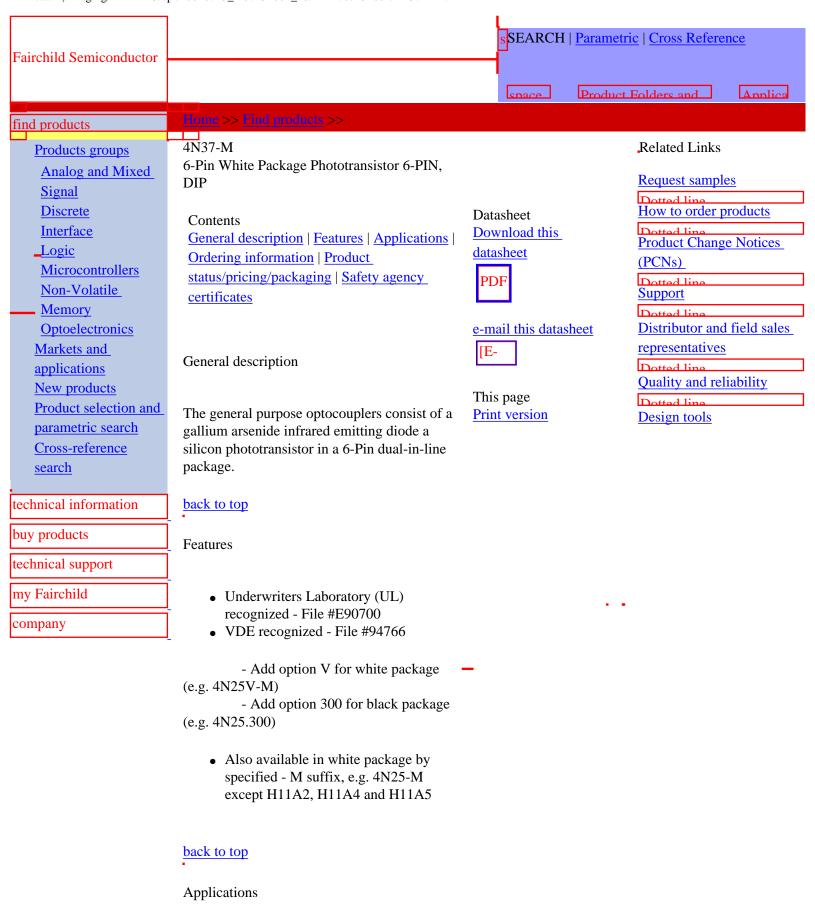
Product	Product status	Pricing*	Package type	Leads	Packing method
4N36SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N36V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N36T-M	Full Production	\$0.132	DIP	6	RAIL
4N36TV-M	Full Production	\$0.132	N/A	N/A	RAIL
4N36FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N36FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N36SV-M	Full Production	\$0.132	DIP	6	RAIL
4N36FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N36-M	Full Production	\$0.132	N/A	N/A	RAIL
4N36F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N36SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N36S-M	Full Production	\$0.132	DIP	6	RAIL

<sup>\* 1,000</sup> piece Budgetary Pricing

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102497 (1629 K)	VDE	VDE Pruf-und Zertifizierungsinstitut
<u>1113639</u> (111 K)	CSA	Canadian Standards Association
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- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

# Ordering information

The following options can be ordered with this part:

Option	Order Entry Identifier	Description	
300	.300	VDE 0884	
3S	.3S	Option S (see below); VDE 0884	
3SD	.3SD	Option S (see below); VDE 0884; Tape and Reel	
R2	.R2	Opto Plus 2 Reliability Conditioning	
S	.S	Surface-Mount Lead Bend	
SD	.SD	Option S; Tape and Reel	
W	.W	10 mm Lead Bend	

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## Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
4N37V-M	Full Production	\$0.132	N/A	N/A	RAIL
4N37S-M	Full Production	\$0.132	DIP	6	RAIL
4N37SR2V-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N37TV-M	Full Production	\$0.132	N/A	N/A	RAIL
4N37F-M	Full Production	\$0.149	N/A	N/A	RAIL
4N37SV-M	Full Production	\$0.132	DIP	6	RAIL
4N37FR2V-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N37FR2-M	Full Production	\$0.159	DIP	6	TAPE REEL
4N37SR2-M	Full Production	\$0.141	DIP	6	TAPE REEL
4N37T-M	Full Production	\$0.132	N/A	N/A	RAIL
4N37FV-M	Full Production	\$0.149	N/A	N/A	RAIL
4N37-M	Full Production	\$0.132	N/A	N/A	RAIL

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