

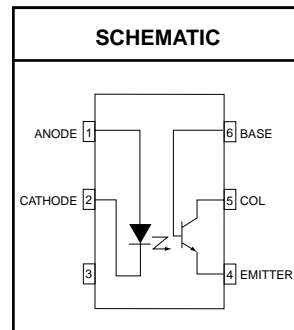
DESCRIPTION

The CNY17 series consists of a Gallium Arsenide IRED coupled with an NPN phototransistor.

CNY17-1	CNY17-3
CNY17-2	CNY17-4

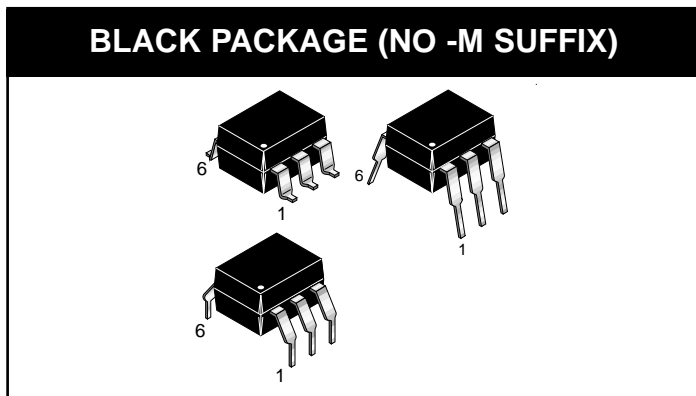
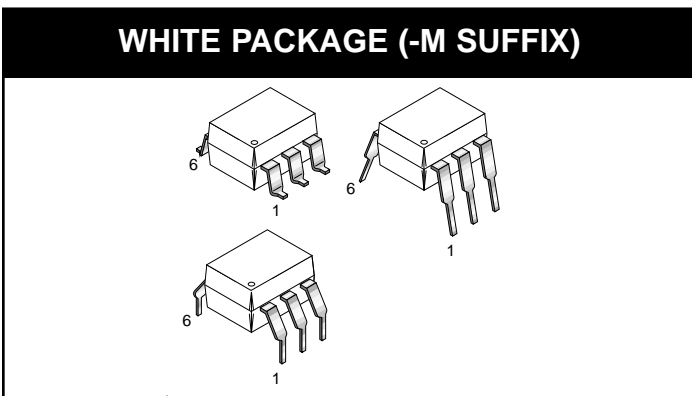
FEATURES

- CNY17-1/2/3 are also available in white package by specifying -M suffix (eg. CNY17-2-M)
- UL recognized (File # E90700)
- VDE recognized
 - 102497 for white package -Add option V for white package (e.g., CNY17-2V-M)
 - File #102497 -Add option '300' for black package (e.g., CNY17-2.300)
 - File #94766
- Current transfer ratio in select groups
- High BV_{CEO}—70V minimum



APPLICATIONS

- Power supply regulators
- Microprocessor inputs
- Industrial controls
- Digital logic inputs
- Appliance sensor systems



Parameters	Symbol	Device	Value	Units
TOTAL DEVICE				
Storage Temperature	T _{STG}	All	-55 to +150	°C
Operating Temperature	T _{OPR}	All	-55 to +100	°C
Lead Solder Temperature	T _{SOL}	All	260 for 10 sec	°C
Total Device Power Dissipation @ 25°C (LED plus detector)	P _D	-M	250	mW
Derate Linearly From 25°C		non -M	260	
		-M	2.94	mW/°C
		non -M	3.50	
EMITTER				
Continuous Forward Current	I _F	-M	60	mA
Reverse Voltage	V _R	All	6	
Forward Current - Peak (1 μs pulse, 300 pps)	I _{F(pk)}	-M	1.5	A
		non -M	3.0	
LED Power Dissipation 25°C Ambient	P _D	-M	120	mW
Derate Linearly From 25°C		non -M	135	
			-M	1.41
		non -M	1.8	
DETECTOR				
Detector Power Dissipation @ 25°C	P _D	-M	150	mW
Derate Linearly from 25°C		non -M	200	
			-M	1.76
		non -M	2.67	

CNY17-1 CNY17-3
CNY17-2 CNY17-4

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise specified.)

INDIVIDUAL COMPONENT CHARACTERISTICS

Parameters	Test Conditions	Symbol	Device	Min	Typ	Max	Units
EMITTER Input Forward Voltage	$I_F = 60 \text{ mA}$	V_F	-M		1.35	1.65	V
	$I_F = 10 \text{ mA}$		non -M		1.15	1.50	
Capacitance	$V_F = 0 \text{ V}, f = 1.0 \text{ MHz}$	C_J	non -M		50		pF
			-M		18		
Reverse Leakage Current	$V_R = 6 \text{ V}$	I_R	All		0.001	10	μA
DETECTOR							
Breakdown Voltage Collector to Emitter	$I_C = 1.0 \text{ mA}, I_F = 0$	BV_{CEO}	All	70	100		V
Collector to Base	$I_C = 10 \mu\text{A}, I_F = 0$	BV_{CBO}	All	70	120		V
Emitter to Collector	$I_E = 100 \mu\text{A}, I_F = 0$	BV_{ECO}	All	7	10		V
Leakage Current Collector to Emitter	$V_{CE} = 10 \text{ V}, I_F = 0$	I_{CEO}	All		1	50	nA
Collector to Base	$V_{CB} = 10 \text{ V}, I_F = 0$	I_{CBO}	All			20	nA
Capacitance Collector to Emitter	$V_{CE} = 0, f = 1 \text{ MHz}$	C_{CE}	All		8		pF
Collector to Base	$V_{CB} = 0, f = 1 \text{ MHz}$	C_{CB}	All		20		pF
Emitter to Base	$V_{EB} = 0, f = 1 \text{ MHz}$	C_{EB}	All		10		pF

ISOLATION CHARACTERISTICS

Characteristic	Test Conditions	Symbol	Device	Min	Typ**	Max	Units
Input-Output Isolation Voltage	$f = 60 \text{ Hz}, t = 1 \text{ min.}$	V_{ISO}	Black Package	5300			Vac(rms)*
			'-M' White Package	7500			Vac(pk)
Isolation Resistance	$V_{I-O} = 500 \text{ VDC}$	R_{ISO}	All	10^{11}			Ω
Isolation Capacitance	$V_{I-O} = \emptyset, f = 1 \text{ MHz}$	C_{ISO}	Black Package		0.5		pF
			'-M' White Package		0.2		

Note

* 5300 Vac(rms) for 1 minute equates to approximately 9000 Vac (pk) for 1 second

** Typical values at $T_A = 25^\circ\text{C}$

CNY17-1 CNY17-3
CNY17-2 CNY17-4

TRANSFER CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise specified.)								
DC Characteristics	Test Conditions	Symbol	Device	Min	Typ	Max	Units	
Current Transfer Ratio, Collector to Emitter	$I_F = 10\text{ mA}, V_{CE} = 5\text{ V}$	CTR	CNY17-1/-1-M	40		80	%	
			CNY17-2/-2-M	63		125		
			CNY17-3/-3-M	100		200		
			CNY17-4	160		320		
Saturation Voltage	$I_F = 10\text{ mA}, I_C = 2.5\text{ mA}$	$V_{CE(SAT)}$	All			.40	V	
AC Characteristics	Test Conditions	Symbol	Device	Min	Typ	Max	Units	
Non-Saturated Switching Times	$R_L = 100\ \Omega, I_C = 2\text{ mA}, V_{CC} = 10\text{ V}$	t_{on}	non -M			10	μs	
Turn-On Time (Fig.19 and Fig.20)								
Turn-Off Time (Fig.19 and Fig.20)		non -M			10	μs		
Delay Time (Fig.19 and Fig.20)		$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 75\ \Omega$	t_d	-M			5.6	μs
Rise Time (Fig.19 and Fig.20)		$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 75\ \Omega$	t_r	-M			4.0	μs
Storage Time (Fig.19 and Fig.20)		$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 75\ \Omega$	t_s	-M			4.1	μs
Fall Time (Fig.19 and Fig.20)		$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 75\ \Omega$	t_f	-M			3.5	μs
Saturated Switching Times	$I_F = 20\text{ mA}, V_{CE} = 0.4\text{ V}$	t_{on}	CNY17-1			5.5	μs	
Turn-On Time (Fig.19 and Fig.20)	$I_F = 10\text{ mA}, V_{CE} = 0.4\text{ V}$		CNY17-2, CNY17-3, CNY17-4			8.0		
Rise-Time (Fig.19 and Fig.20)	$I_F = 20\text{ mA}, V_{CE} = 0.4\text{ V}$	t_r	CNY17-1			4.0	μs	
	$I_F = 10\text{ mA}, V_{CE} = 0.4\text{ V}$		CNY17-2, CNY17-3, CNY17-4			6.0		
	$I_F = 20\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-1-M			4.0		
	$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-2-M,CNY17-3-M			6.0		
Delay Time (Fig.19 and Fig.20)	$I_F = 20\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$	t_d	CNY17-1-M			5.5	μs	
	$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-2, CNY17-3			8.0		
Turn-Off Time (Fig.19 and Fig.20)	$I_F = 20\text{ mA}, V_{CE} = 0.4\text{ V}$	t_{off}	CNY17-1			34.0	μs	
	$I_F = 10\text{ mA}, V_{CE} = 0.4\text{ V}$		CNY17-2, CNY17-3, CNY17-4			39.0		
Fall-Time (Fig.19 and Fig.20)	$I_F = 20\text{ mA}, V_{CE} = 0.4\text{ V}$	t_f	CNY17-1			20.0	μs	
	$I_F = 10\text{ mA}, V_{CE} = 0.4\text{ V}$		CNY17-2, CNY17-3, CNY17-4			24.0		
	$I_F = 20\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-1-M			20.0		
	$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-2-M,CNY17-3-M			24.0		
Storage Time (Fig.19 and Fig.20)	$I_F = 20\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$	t_s	CNY17-1-M			34.0	μs	
	$I_F = 10\text{ mA}, V_{CC} = 5\text{ V}, R_L = 1\text{ K}\Omega$		CNY17-2-M,CNY17-3-M			39.0		

CNY17-1	CNY17-3
CNY17-2	CNY17-4

Fig.1 Normalized CTR vs. Forward Current (Black Package)

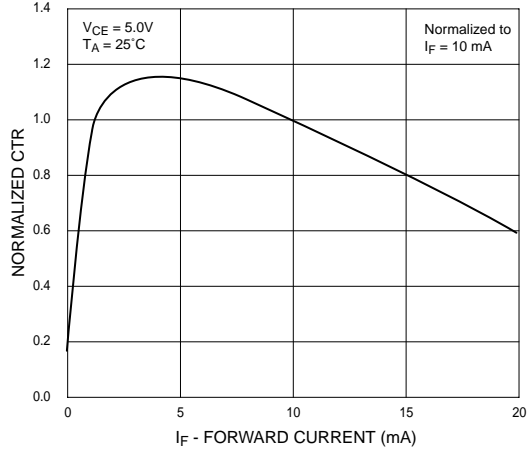


Fig.2 Normalized CTR vs. Forward Current (White Package)

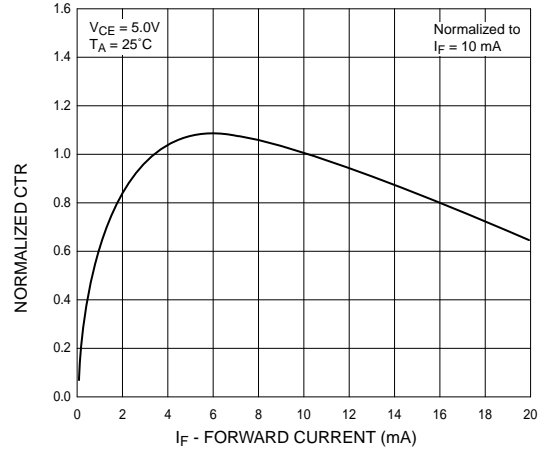


Fig. 3 Normalized CTR vs. Ambient Temperature (Black Package)

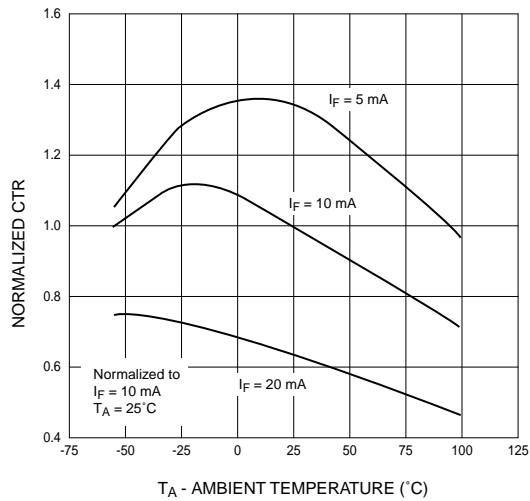


Fig. 4 Normalized CTR vs. Ambient Temperature (White Package)

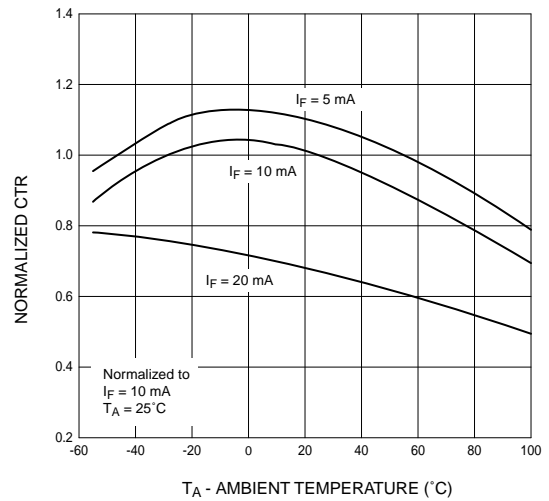


Fig. 5 CTR vs. RBE (Unsatrated) (Black Package)

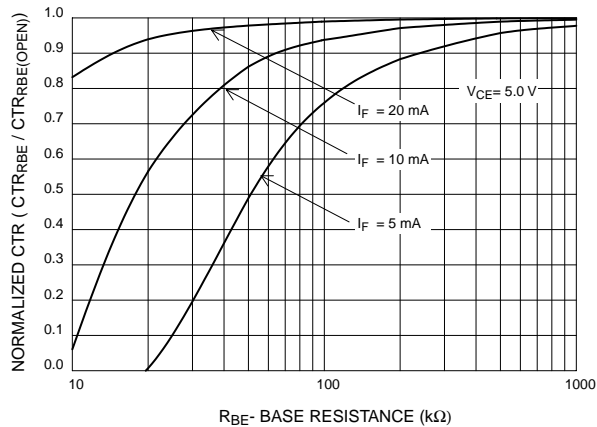
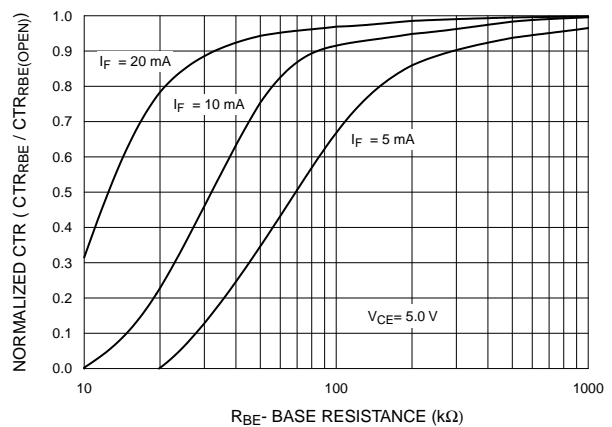


Fig. 6 CTR vs. RBE (Unsatrated) (White Package)



CNY17-1 CNY17-3
CNY17-2 CNY17-4

Fig. 7 CTR vs. RBE (Saturated)
(Black Package)

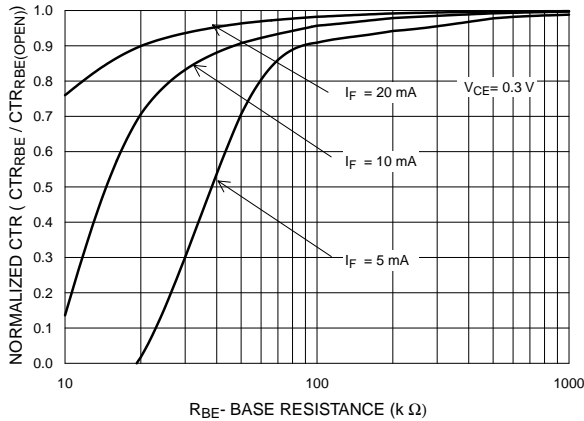


Fig. 8 CTR vs. RBE (Saturated)
(White Package)

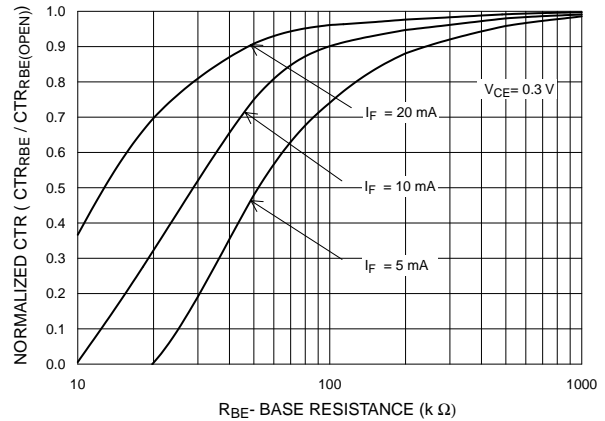


Fig. 9 Switching Speed vs. Load Resistor
(Black Package)

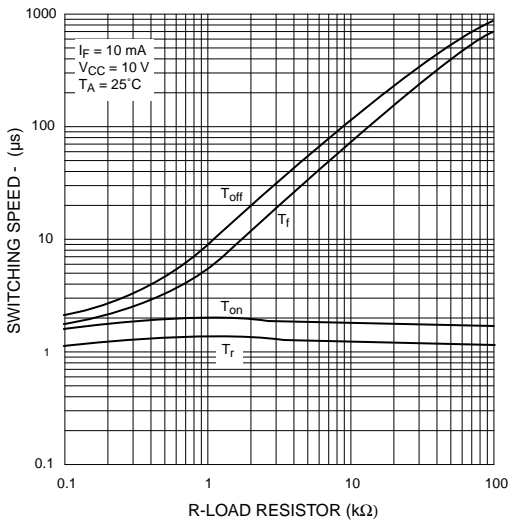


Fig. 10 Switching Speed vs. Load Resistor
(White Package)

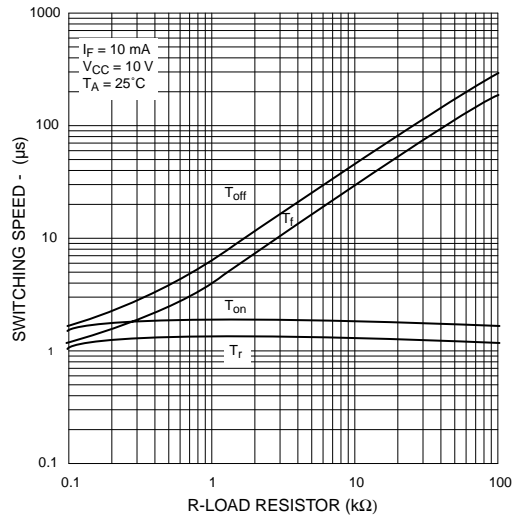


Fig. 11 Normalized ton vs. RBE
(Black Package)

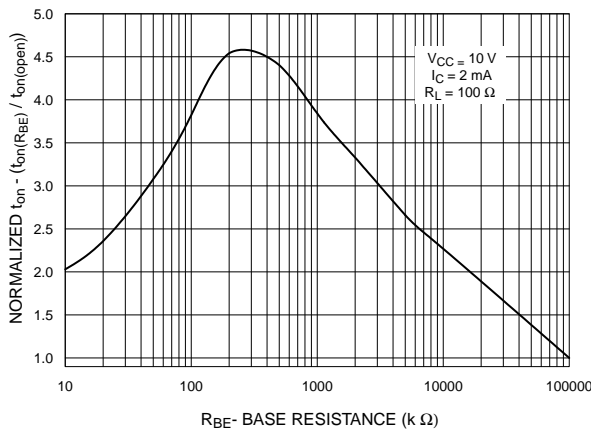
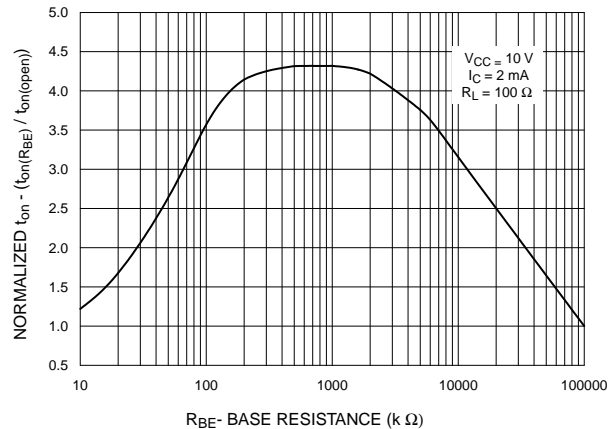


Fig. 12 Normalized ton vs. RBE
(White Package)



CNY17-1 CNY17-3
CNY17-2 CNY17-4

Fig. 13 Normalized t_{off} vs. R_{BE} (Black Package)

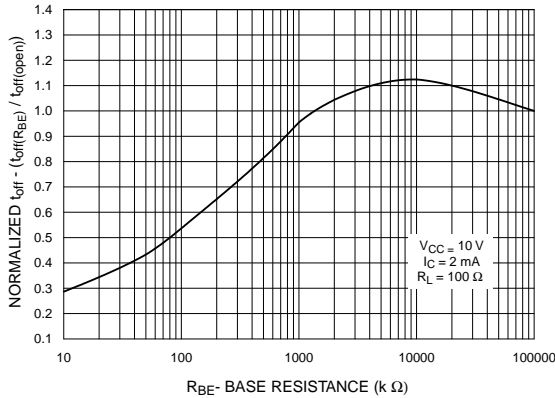


Fig. 14 Normalized t_{off} vs. R_{BE} (White Package)

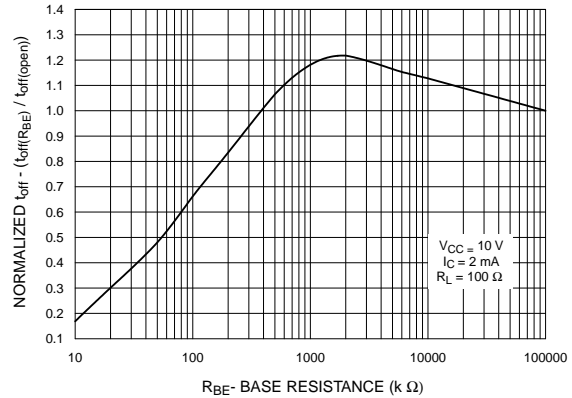


Fig. 15 LED Forward Voltage vs. Forward Current (Black Package)

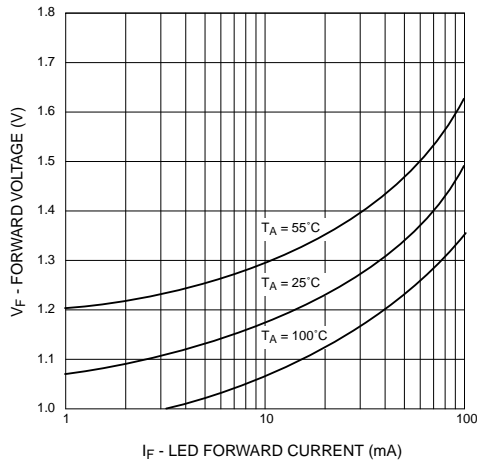


Fig. 16 LED Forward Voltage vs. Forward Current (White Package)

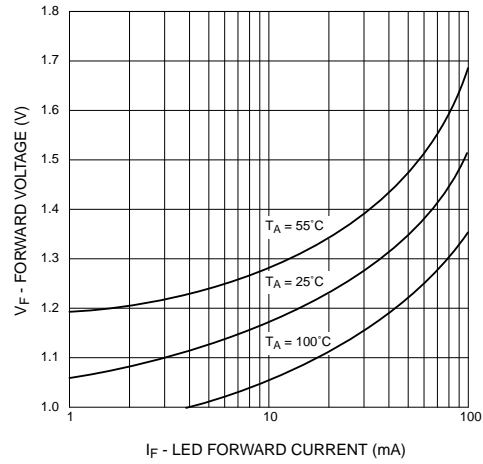


Fig. 17 Collector Current vs. Collector-Emitter Saturation Voltage

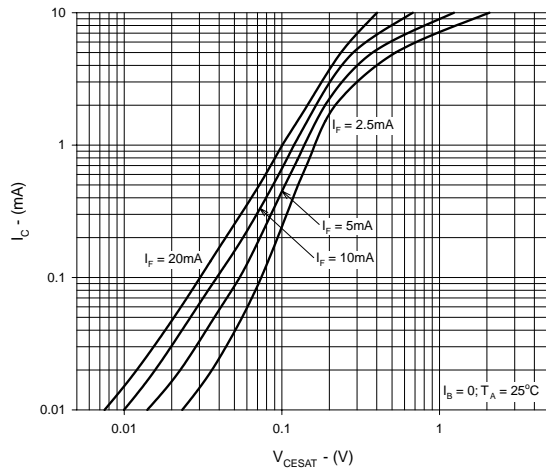
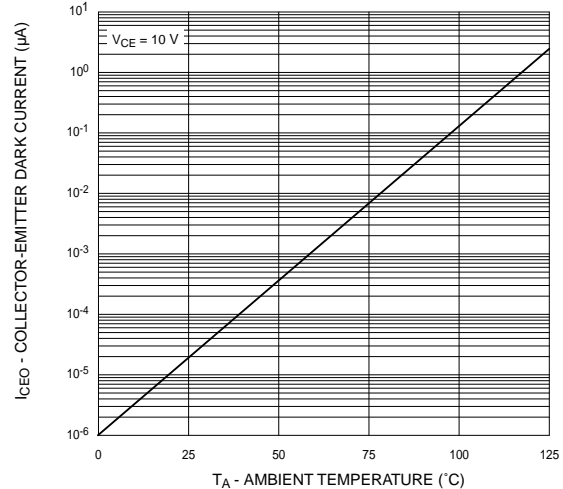


Fig. 18 Dark Current vs. Ambient Temperature (Black Package)



CNY17-1	CNY17-3
CNY17-2	CNY17-4

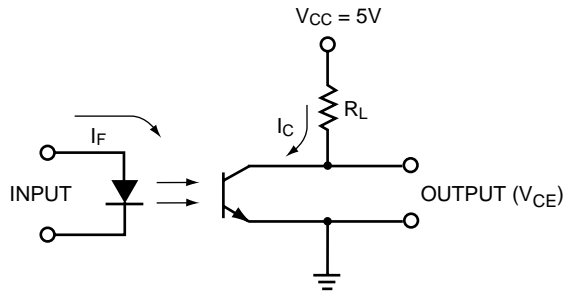


Figure 19. Switching Time Test Circuit

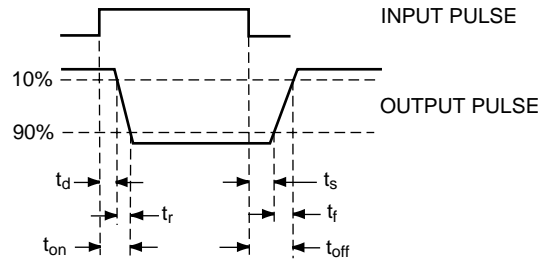
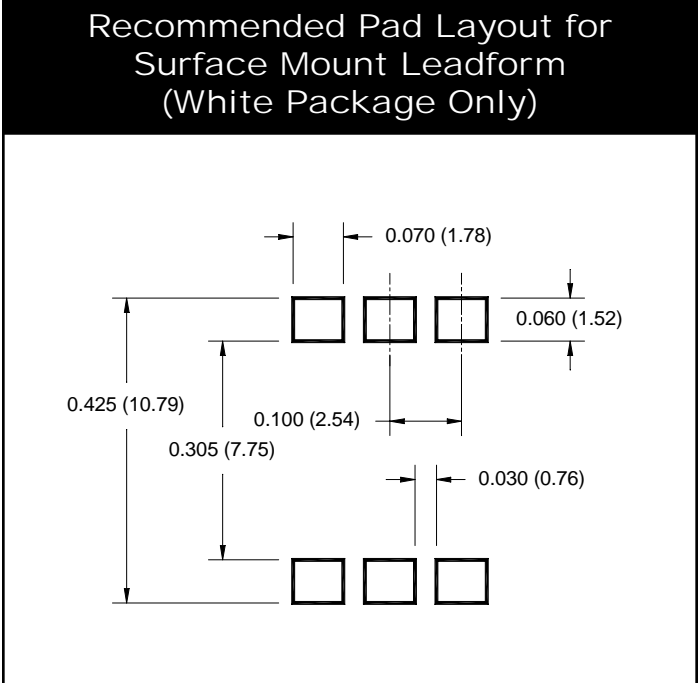
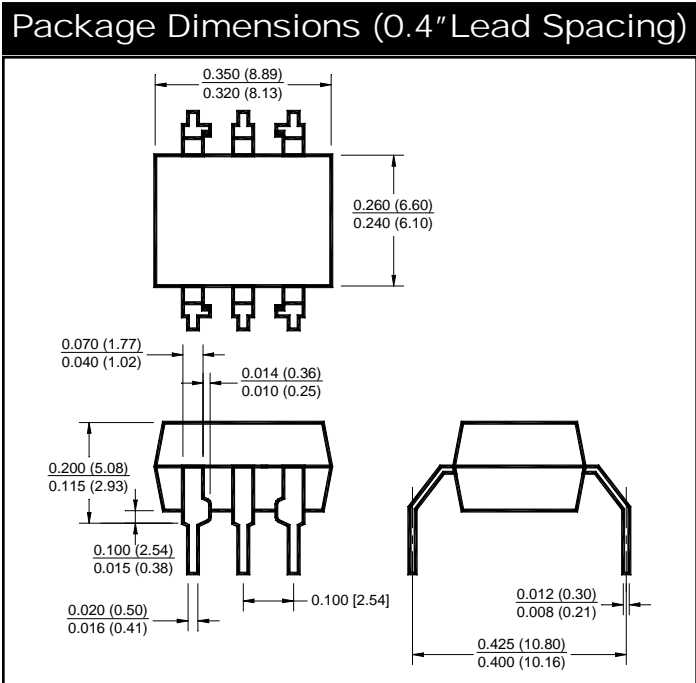
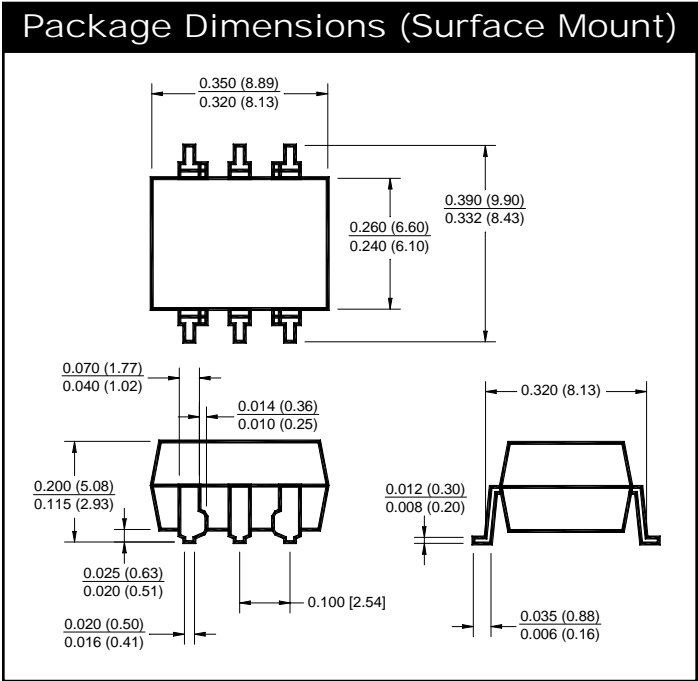
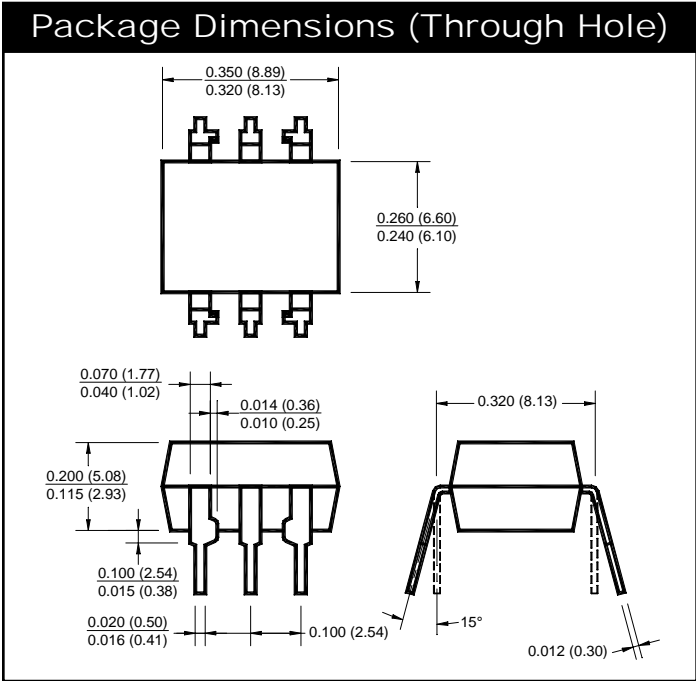


Figure 20. Switching Time Waveforms

White Package (-M Suffix)

CNY17-1	CNY17-3
CNY17-2	CNY17-4



NOTE

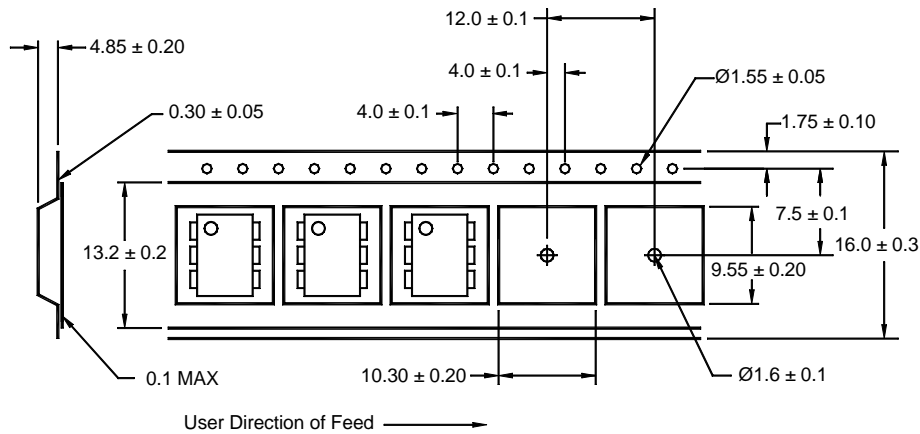
All dimensions are in inches (millimeters)

CNY17-1 CNY17-3
CNY17-2 CNY17-4

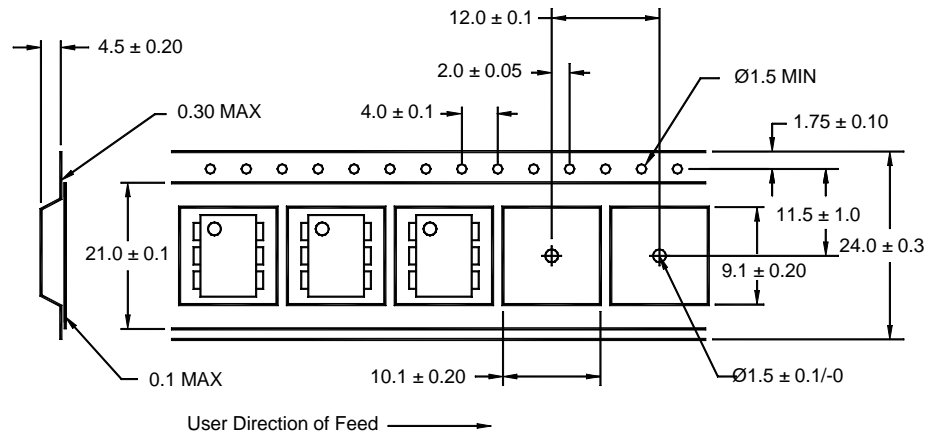
ORDERING INFORMATION

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

Carrier Tape Specifications (Black Package, No Suffix)



Carrier Tape Specifications (White Package, -M Suffix)



NOTE

All dimensions are in inches (millimeters)

CNY17-1	CNY17-3
CNY17-2	CNY17-4

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CNY17-3-M

6-Pin High BVceo White Package

Phototransistor 6-PIN, DIP

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General description

The CNY17 series consists of a gallium arsenide IRED coupled with an NPN phototransistor

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Features

- CNY17-1/2/3 are also available in white package by specifying -M suffix (eg. CNY17-2-M)
- UL recognized (File #E90700)
- VDE recognized
 - 102497 for white package
 - File #102497
 - File #94766
 - Add option V for white package (e.g., CNY17-2V-M)
 - Add option '300' for black package (e.g., CNY17-2.300)
- Current transfer ratio in selected groups
- High BV_{CEO} - 70V minimum

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Applications

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company

- Power supply regulators
- Microprocessor inputs
- Industrial controls
- Digital logic inputs
- Appliance sensor systems

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Ordering information

The following options can be ordered with this part:

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

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
CNY17-3FV-M	Full Production	\$0.176	N/A	N/A	RAIL
CNY17-3S-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-3FR2V-M	Full Production	\$0.185	DIP	6	TAPE REEL
CNY17-3SR2-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-3SV-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-3V-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-3-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-3TV-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-3F-M	Full Production	\$0.176	N/A	N/A	RAIL
CNY17-3T-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-3SR2V-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-3FR2-M	Full Production	\$0.185	DIP	6	TAPE REEL

* 1,000 piece Budgetary Pricing

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Safety agency certificates

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

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CNY17-2-M

6-Pin High BVceo White Package

Phototransistor 6-PIN, DIP

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General description

The CNY17 series consists of a gallium arsenide IRED coupled with an NPN phototransistor

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Features

- CNY17-1/2/3 are also available in white package by specifying -M suffix (eg. CNY17-2-M)
- UL recognized (File #E90700)
- VDE recognized
 - 102497 for white package
 - File #102497
 - File #94766
 - Add option V for white package (e.g., CNY17-2V-M)
 - Add option '300' for black package (e.g., CNY17-2.300)
- Current transfer ratio in selected groups
- High BV_{CEO} - 70V minimum

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Applications

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- Power supply regulators
- Microprocessor inputs
- Industrial controls
- Digital logic inputs
- Appliance sensor systems

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Ordering information

The following options can be ordered with this part:

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

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
CNY17-2V-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-2S-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-2SV-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-2FV-M	Full Production	\$0.176	N/A	N/A	RAIL
CNY17-2SR2-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-2-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-2FR2-M	Full Production	\$0.185	DIP	6	TAPE REEL
CNY17-2FR2V-M	Full Production	\$0.185	DIP	6	TAPE REEL
CNY17-2F-M	Full Production	\$0.176	N/A	N/A	RAIL
CNY17-2SR2V-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-2TV-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-2T-M	Full Production	\$0.159	DIP	6	RAIL

* 1,000 piece Budgetary Pricing

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Safety agency certificates

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

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CNY17-1-M

6-Pin High BVceo White Package

Phototransistor 6-PIN, DIP

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3S	.3S	SV	VDE 0884, Surface Mount
3SD	.3SD	SR2V	VDE 0884, Surface Mount, Tape & Reel

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
CNY17-1TV-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-1V-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-1S-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-1SV-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-1FR2V-M	Full Production	\$0.185	DIP	6	TAPE REEL
CNY17-1FR2-M	Full Production	\$0.185	DIP	6	TAPE REEL
CNY17-1SR2V-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-1SR2-M	Full Production	\$0.167	DIP	6	TAPE REEL
CNY17-1FV-M	Full Production	\$0.176	N/A	N/A	RAIL
CNY17-1T-M	Full Production	\$0.159	DIP	6	RAIL
CNY17-1-M	Full Production	\$0.159	N/A	N/A	RAIL
CNY17-1F-M	Full Production	\$0.176	N/A	N/A	RAIL

* 1,000 piece Budgetary Pricing

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FI 17434 (47 K)	FIMKO	FIMKO
E90700, Vol. 2 (254 K)	UL	Underwriters Laboratories Inc.

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