Safety and Insulation Ratings

As per IEC 60747-5-2. This optocoupler is suitable for "safe electrical insulation" only within the safety limit data. Compliance with the safety ratings shall be ensured by means of protective circuits.

Symbol	Parameter	Min.	Тур.	Max.	Unit
	Installation Classifications per DIN VDE 0110/1.89 Table 1				
	For Rated Mains Voltage < 150Vrms		I–IV		
	For Rated Mains Voltage < 300Vrms		I–IV		
	For Rated Mains Voltage < 450Vrms		I–III		
	For Rated Mains Voltage < 600Vrms		I–III		
	For Rated Mains Voltage < 1000Vrms (Option T, TS)		I–III		
	Climatic Classification		40/85/21		
	Pollution Degree (DIN VDE 0110/1.89)		2		
CTI	Comparative Tracking Index	175			
V _{PR}	Input to Output Test Voltage, Method b, V _{IORM} x 1.875 = V _{PR} , 100% Production Test with tm = 1 sec., Partial Discharge < 5pC	2651			
	Input to Output Test Voltage, Method a, V _{IORM} x 1.5 = V _{PR} , Type and Sample Test with tm = 60 sec.,Partial Discharge < 5 pC	2121			
V _{IORM}	Max Working Insulation Voltage	1,414			V _{peak}
V _{IOTM}	Highest Allowable Over Voltage	6000			V _{peak}
	External Creepage	8			mm
	External Clearance	7.4			mm
	External Clearance (for Option T or TS - 0.4" Lead Spacing)	10.16			mm
	Insulation Thickness	0.5			mm
	Safety Limit Values – Maximum Values Allowed in the Event of a Failure				
T _{Case}	Case Temperature	150			°C
I _{S,INPUT}	Input Current	10			mA
P _{S,OUTPUT}	Output Power (Duty Factor ≤ 2.7%)	150			mW
R _{IO}	Insulation Resistance at T _S , V _{IO} = 500V	10 ⁹			Ω

Absolute Maximum Ratings ($T_A = 25^{\circ}C$ unless otherwise specified)

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Value	Units
T _{STG}	Storage Temperature	-40 to +125	°C
T _{OPR}	Operating Temperature	-40 to +85	°C
T _{SOL}	Lead Solder Temperature (1.6mm below seating plane)	260 for 10 sec	°C
EMITTER			
I _{F (PK)}	Peak Transient Input Current (≤1µs PW, 300pps)	1.0	Α
I _F	Average Forward Input Current	10	mA
V _R	Reverse Input Voltage	5.0	V
P _D	Output Power Dissipation (No derating required up to 85°C)	45	mW
DETECTOR			
V _{CC}	Supply Voltage	0 to 20	V
Io	Average Output Current	25	mA
V _E	Three State Enable Voltage	-0.5 to 20	V
Vo	Output Voltage	-0.5 to 20	V
P _D	Output Power Dissipation (No derating required up to 85°C)	150	mW

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Units
I _{F(ON)}	Forward Input Current	1.6*	5	mA
I _{F(OFF)}	Forward Input Current		0.1	mA
V _{CC}	Supply Voltage, Output	4.5	20	V
V _{EL}	Enable Voltage, LOW Level	0	0.8	V
V _{EH}	Enable Voltage, HIGH Level	2.0	20	V
T _A	Operating Temperature	0	+85	°C
N	Fan Out (TTL Load)		4	

^{*}The initial switching threshold is 1.6mA or less. It is recommended that 2.2mA be used to permit at least a 20% CTR degradation guardband.

FOD2200 — Low Input Current Logic Gate Optocouplers

Electrical Characteristics ($T_A = 0$ °C to +85°C, $V_{CC} = 4.5$ V to 20V, $I_{F(ON)} = 1.6$ mA to 5mA, $V_{EH} = 2$ V to 20V, $V_{EL} = 0$ V to 0.8V, $I_{F(OFF)} = 0$ mA to 0.1mA unless otherwise specified.)⁽¹⁾

Individual Component Characteristics

Symbol	Parameter	Test Conditions		Min.	Тур.*	Max.	Unit
EMITTER	EMITTER						
V _F	Input Forward Voltage	I _F = 5mA				1.75	V
			T _A = 25°C		1.40	1.7	
B _{VR}	Input Reverse Breakdown Voltage	I _R = 10μA		5.0			V
C _{IN}	Input Capacitance	Pins 2 & 3, V _F = 0, f =	1MHz		60		pF
ΔVF/ΔΤΑ	Input Diode Temperature Coefficient	I _F = 5mA	I _F = 5mA		-1.4		mV/°C
DETECTO	DR						1
I _{CCH}	High Level Supply	$I_F = 5mA$, $I_O = Open$,	$V_{CC} = 5.5V$		3.5	4.5	mA
	Current	V _E = Don't Care	V _{CC} = 20V		4.0	6.0	
I _{CCL}	Low Level Supply Current	$I_F = 0$, $I_O = Open$,	$V_{CC} = 5.5V$		4.4	6.0	mA
		V _E = Don't care	V _{CC} = 20V		5.2	7.5	
I _{EL}	Low Level Enable Current	$V_E = 0.4V$			-0.1	-0.32	mA
I _{EH}	High Level Enable Current	V _E = 2.7V				20	μA
		$V_{E} = 5.5V$				100	
		V _E = 20V			0.005	250	
V _{EH}	High Level Enable Voltage			2.0			V
V _{EL}	Low Level Enable Voltage					0.8	V

Switching Characteristics ($T_A = 0$ °C to +85°C, $I_{F(ON)} = 1.6$ mA to 5mA, $I_{F(OFF)} = 0$ to 0.1mA, $V_{CC} = 4.5$ V to 20V unless otherwise specified.)

Symbol	AC Characteristics	Test Con	ditions	Min.	Typ.*	Max.	Unit
T _{PLH}	Propagation Delay Time to Output High Level	With Peaking Capaci	tor ⁽²⁾⁽⁴⁾ (Fig. 1)		120	300	ns
T _{PHL}	Propagation Delay Time to Output Low Level	With Peaking Capaci	tor ⁽³⁾⁽⁴⁾ (Fig. 1)		180	300	ns
t _r	Output Rise Time (10% to 90%)	⁽⁵⁾ (Fig. 1)			80		ns
t _f	Output Fall Time (90% to 10%)	⁽⁶⁾ (Fig. 1)			25		ns
t _{PZH}	Enable Propagation Delay Time to Output High Level	(Fig. 2)			40		ns
t _{PZL}	Enable Propagation Delay Time to Output Low Level	(Fig. 2)			50		ns
T _{PHZ}	Disable Propagation Delay Time from Output High Level	(Fig. 2)			95		ns
T _{PLZ}	Disable Propagation Delay Time from Output Low Level	(Fig. 2)			80	1	ns
ICM _H I	Common Mode Transient Immunity (at Output High Level)	T _A =25°C, V _{OH} (Min.) = 2.0V,	I _F = 1.6mA, V _{CM} = 50V	1,000			V/µs
		$V_{CC} = 5V^{(7)}$ (Fig. 3)	I _F = 5mA, V _{CM} = 1,000V	10,000			
ICM _L I	Common Mode	$T_A = 25$ °C, $I_F = 0$ mA	$ V_{CM} = 50V$	1,000			V/µs
	Transient Immunity (at Output Low Level)	V_{OL} (Max.) = 0.8 V, V_{CC} = 5V ⁽⁸⁾ (Fig. 3)	IV _{CM} = 1,000V	10,000			

^{*}Typical values at T_A = 25°C, V_{CC} = 5V, $I_{F(ON)}$ = 3mA unless otherwise specified.

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Electrical Characteristics (Continued)

Transfer Characteristics ($T_A = 0$ °C to +85°C, $V_{CC} = 4.5V$ to 20V, $I_{F(ON)} = 1.6$ mA to 5mA, $V_{EH} = 2V$ to 20V, $V_{EL} = 0V$ to 0.8V, $I_{F(OFF)} = 0$ mA to 0.1mA unless otherwise specified.)⁽¹⁾

Symbol	DC Characteristics	Test Condition	ons	Min.	Тур.*	Max.	Unit
I _{OHH}	Output Leakage Current	$V_{CC} = 4.5V, I_F = 5mA$	$V_0 = 5.5V$		2.0	100	μΑ
	$(V_{OUT} > V_{CC})$		V _O = 20V		2.5	500	
V _{OL}	Low Level Output Voltage	$V_{CC} = 4.5 \text{ V}, I_F = 0 \text{mA}, V_{OL} = 6.4 \text{mA}^{(2)}$	$V_{\rm E} = 0.4 \rm V$		0.33	0.5	V
I _{FT}	Input Threshold Current	$V_{CC} = 4.5V, V_{O} = 0.5V, V_{OL} = 6.4mA$	$V_E = 0.4V$,			1.6	mA
V _{OH}	Logic High Output Voltage	I _{OH} = -2.6mA		2.4	V _{CC} – 1.8		V
I _{OZL}	High Impedance State Output Current	$V_{O} = 0.4V, V_{EN} = 2V, I_{F}$	$V_{O} = 0.4V, V_{EN} = 2V, I_{F} = 5mA$			-20	μΑ
I _{OZH}	High Impedance State	$V_{O} = 2.4 \text{ V}, V_{EN} = 2 \text{ V}, I_{F}$	= 5mA			20	μΑ
	Output Current	$V_{O} = 5.5 \text{ V}, V_{EN} = 2 \text{ V}, I_{F}$	= 5mA			100	
		$V_{O} = 20 \text{ V}, V_{EN} = 2 \text{ V}, I_{F}$	= 5mA			500	
I _{OSL}	Logic Low Short Circuit	$V_{O} = V_{CC} = 5.5V, I_{F} = 00$	mA	25		\ 	mA
	Output Current ⁽¹⁰⁾	$V_{O} = V_{CC} = 20V, I_{F} = 0n$	nA	40			
I _{OSH}	Logic High Short Circuit	$V_{CC} = 5.5V, I_F = 5mA, V$	O = GND	-10			mA
	Output Current ⁽¹⁰⁾	$V_{CC} = 20V, I_F = 5mA, V_C$	o = GND	-25			
I _{HYS}	Input Current Hysteresis	V _{CC} = 4.5V			0.03		mA

Isolation Characteristics (T_A = 0°C to +85°C unless otherwise specified)

Symbol	Characteristics	Test Conditions	Min.	Тур.*	Max.	Unit
V _{ISO}	Withstand Insulation Test Voltage	$R_H < 50\%$, $T_A = 25$ °C, $t = 1 \text{ min.}^{(9)}$	5000			V _{RMS}
R _{I-O}	Resistance (Input to Output)	$V_{I-O} = 500 VDC^{(9)}$		10 ¹²		Ω
C _{I-O}	Capacitance (Input to Output)	$V_{I-O} = 0V, f = 1MHz^{(9)}$		0.6		pF

^{*}Typical values at T_A = 25°C, V_{CC} = 5V, $I_{F(ON)}$ = 3mA unless otherwise stated.

Notes:

- The V_{CC} supply to each optoisolator must be bypassed by a 0.1µF capacitor or larger. This can be either a ceramic
 or solid tantalum capacitor with good high frequency characteristic and should be connected as close as possible
 to the package V_{CC} and GND pins of each device.
- t_{PLH} Propagation delay is measured from the 50% level on the LOW to HIGH transition of the input current pulse
 to the 1.3V level on the LOW to HIGH transition of the output voltage pulse.
- 3. t_{PHL} Propagation delay is measured from the 50% level on the HIGH to LOW transition of the input current pulse to the 1.3V level on the HIGH to LOW transition of the output voltage pulse.
- 4. When the peaking capacitor is omitted, propagation delay times may increase by 100ns.
- 5. t_r Rise time is measured from the 10% to the 90% levels on the LOW to HIGH transition of the output pulse.
- 6. t_f Fall time is measured from the 90% to the 10% levels on the HIGH to LOW transition of the output pulse.
- CM_H The maximum tolerable rate of fall of the common mode voltage to ensure the output will remain in the high state (i.e., V_{OLIT} > 2.0V).
- 8. CM_L The maximum tolerable rate of rise of the common mode voltage to ensure the output will remain in the low state (i.e., $V_{OUT} < 0.8V$).
- 9. Device considered a two-terminal device: Pins 1, 2, 3 and 4 shorted together, and Pins 5, 6, 7 and 8 shorted together.
- 10. Duration of output short circuit time should not exceed 10ms.

Test Circuits

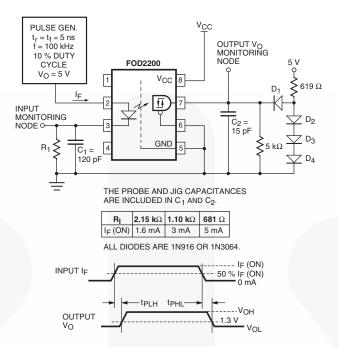
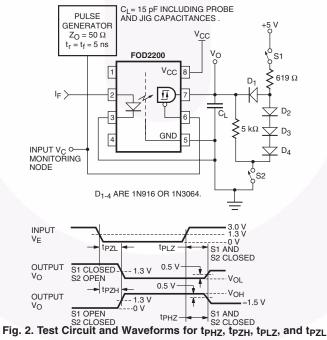


Fig. 1. Test Circuit and Waveforms for $t_{\text{PLH}},\,t_{\text{PHL}},\,t_{\text{r}}$ and t_{f}



Test Circuits (Continued)

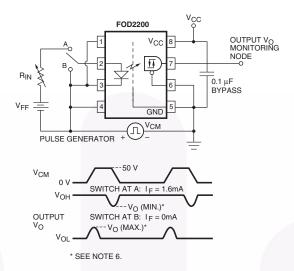


Fig. 3. Test Circuit and Typical Waveforms for Common Mode Transient Immunity

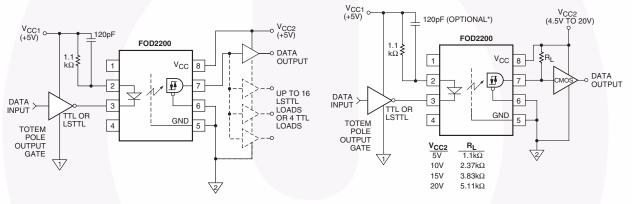


Figure 4. Recommended LSTTL to LSTTL Circuit

Figure 5. LSTTL to CMOS Interface Circuit

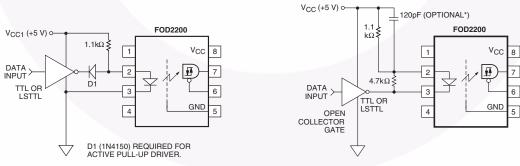
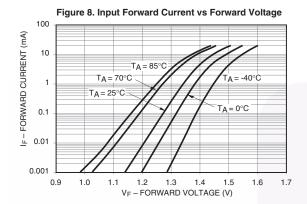


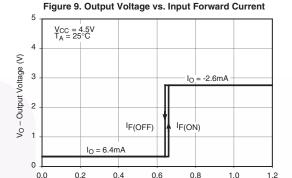
Figure 6. Recommended LED Drive Circuit

Figure 7. Series LED Drive with Open Collector Gate (4.7k Ω Resistor Shunts IOH from the LED)

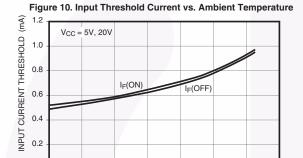
^{*}The 120pF capacitor may be omitted in applications where 500ns propagation delay is sufficient.

Typical Performance Curves





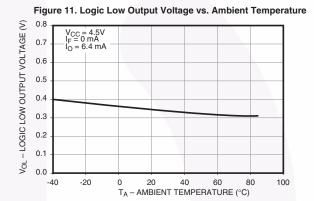
IF - INPUT FORWARD CURRENT (mA)

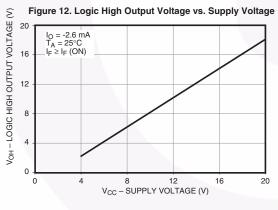


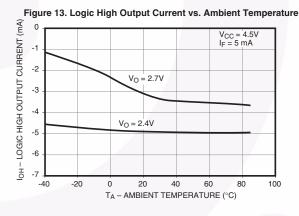
Ambient Temperature (°C)

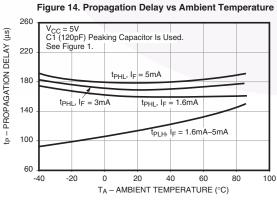
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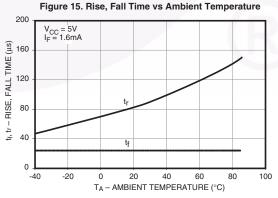
100











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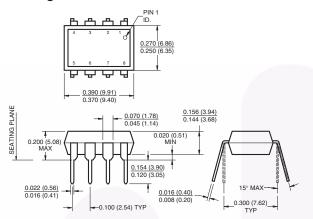
0.0

-40

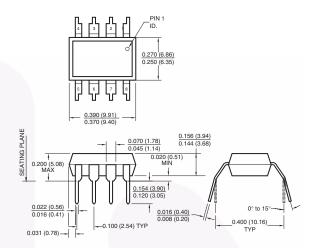
-20

Package Dimensions

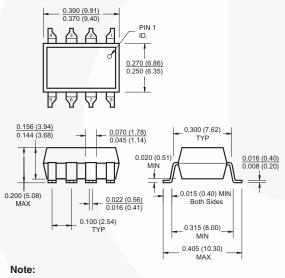
Through Hole



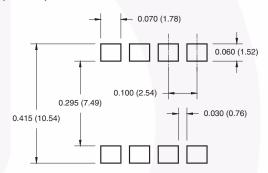
0.4" Lead Spacing (Option T)



Surface Mount - 0.3" Lead Spacing (Option S)



8-Pin Surface Mount DIP – Land Pattern (Option S)



All dimensions are in inches (millimeters)

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Package Dimensions (Continued)

Surface Mount – 0.4" Lead Spacing (Option TS)

0.390 (9.91) 0.370 (9.40) PIN 1 ID. 0.270 (6.86) 0.250 (6.35) 5 6 7 8 0.000 (7.62) TYP

-0.031 (0.775)

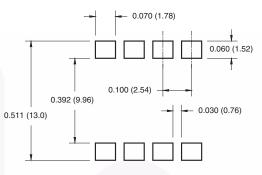
0.020 (0.51)

0.015 (0.40) MIN

0.400 (10.16)

0.497 (12.6) MAX.

8-Pin Surface Mount DIP – Land Pattern (Option TS)



Note:

0.200 (5.08) MAX

All dimensions are in inches (millimeters)

0.100 (2.54) TYP

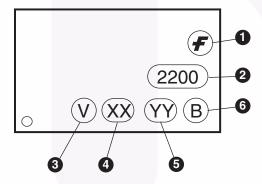
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Ordering Information

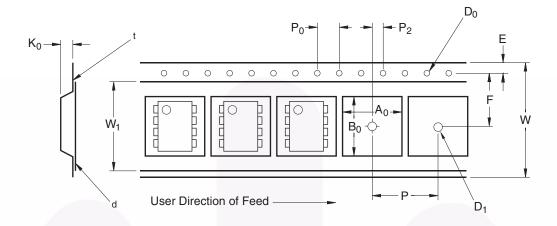
Part Number	Package	Packing Method
FOD2200	DIP 8-Pin	Tube (50 units per tube)
FOD2200S	SMT 8-Pin (Lead Bend)	Tube (50 units per tube)
FOD2200SD	SMT 8-Pin (Lead Bend)	Tape and Reel (1,000 units per reel)
FOD2200V	DIP 8-Pin, IEC60747-5-2 option	Tube (50 units per tube)
FOD2200SV	SMT 8-Pin (Lead Bend), IEC60747-5-2 option	Tube (50 units per tube)
FOD2200SDV	SMT 8-Pin (Lead Bend), IEC60747-5-2 option	Tape and Reel (1,000 units per reel)
FOD2200TV	DIP 8-Pin, 0.4" Lead Spacing, IEC60747-5-2 option	Tube (50 units per tube)
FOD2200TSV	SMT 8-Pin, 0.4" Lead Spacing, IEC60747-5-2 option	Tube (50 units per tube)
FOD2200TSR2V	SMT 8-Pin, 0.4" Lead Spacing, IEC60747-5-2 option	Tape and Reel (700 units per reel)

Marking Information



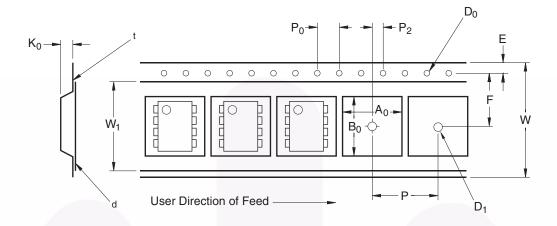
Defini	Definitions				
1	Fairchild logo				
2	Device number				
3	IEC60747-5-2 Option (only appears on component ordered with this option) (Pending approval)				
4	Two digit year code, e.g., '08'				
5	Two digit work week ranging from '01' to '53'				
6	Assembly package code				

Carrier Tape Specifications (Option SD)



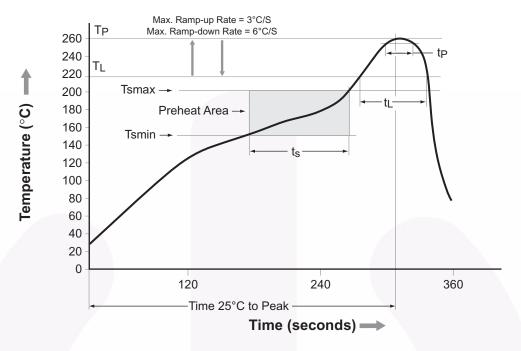
Symbol	Description	Dimension in mm
W	Tape Width	16.0 ± 0.3
t	Tape Thickness	0.30 ± 0.05
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
Е	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	7.5 ± 0.1
P ₂		2.0 ± 0.1
Р	Pocket Pitch	12.0 ± 0.1
A ₀	Pocket Dimensions	10.30 ±0.20
B ₀		10.30 ±0.20
K ₀		4.90 ±0.20
W ₁	Cover Tape Width	13.2 ± 0.2
d	Cover Tape Thickness	0.1 max
	Max. Component Rotation or Tilt	10°
R	Min. Bending Radius	30

Carrier Tape Specifications (Option TSR2V)



Symbol	Description	Dimension in mm
W	Tape Width	24.0 ± 0.3
t	Tape Thickness	0.40 ± 0.1
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	11.5 ± 0.1
P ₂		2.0 ± 0.1
Р	Pocket Pitch	16.0 ± 0.1
A ₀	Pocket Dimensions	12.80 ± 0.1
B ₀		10.35 ± 0.1
K ₀		5.7 ±0.1
W ₁	Cover Tape Width	21.0 ± 0.1
d	Cover Tape Thickness	0.1 max
	Max. Component Rotation or Tilt	10°
R	Min. Bending Radius	30

Reflow Profile



Profile Freature	Pb-Free Assembly Profile
Temperature Min. (Tsmin)	150°C
Temperature Max. (Tsmax)	200°C
Time (t _S) from (Tsmin to Tsmax)	60-120 seconds
Ramp-up Rate (t _L to t _P)	3°C/second max.
Liquidous Temperature (T _L)	217°C
Time (t _L) Maintained Above (T _L)	60-150 seconds
Peak Body Package Temperature	260°C +0°C / -5°C
Time (t _P) within 5°C of 260°C	30 seconds
Ramp-down Rate (T _P to T _L)	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.





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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. 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

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com,

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Definition of Terms		
Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

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