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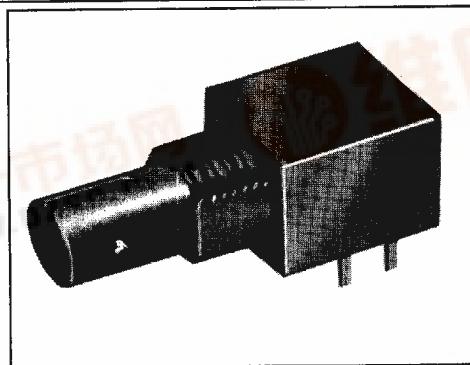
, 24小时加急出货

# HFE4226

## Next Generation High Power LEDs, Metal ST Package

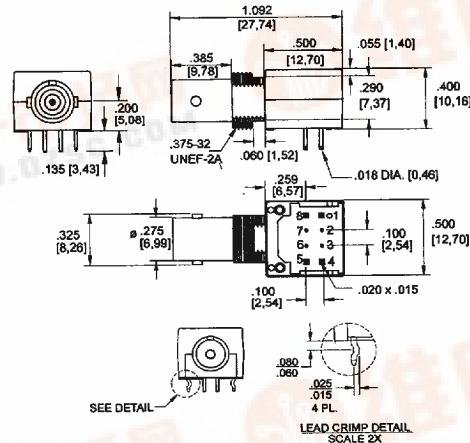
### FEATURES

- Industry standard ST® fiber connector
- 850 nm GaAlAs LED
- Fiber Dip package style
- High reliability construction
- Threaded metal barring and housing
- Wave solderable
- Metal package provides enhanced durability and heat dissipation over plastic packages



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### OUTLINE DIMENSIONS in inches (mm)



SEE DETAIL

LEAD CRIMP DETAIL  
SCALE 2X

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### Pinout

1. Common*	5. Common*
2. Anode	6. Anode
3. Cathode	7. Anode
4. Common*	8. Common*

Pins 1, 4, 5 and 8 are common and connected to the metal housing



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Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

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### ELECTRO-OPTICAL CHARACTERISTICS (TA = -40 to +85°C unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYP <sup>(1)</sup>	MAX	UNITS	TEST CONDITIONS
Fiber Coupled Power (HFE4226-X22)	Poc	-17.3	-13.8	-11.4	dBm	IF = 100 mA Peak 50/125 μm fiber, NA = 0.20
Peak, TA=25°C		-18.9		-10.8		
Peak over temp.						
Fiber Coupled Power (HFE4226-X23)	Poc	-18.8	-15.8	-13.8	dBm	IF = 60 mA Peak 50/125 μm fiber, NA = 0.20
Peak, TA=25°C		-19.8		-12.8		
Peak over temp.						
Fiber Coupled Power (HFE4226-X24)	Poc	-13.5	-10.0	-7.6	dBm	IF = 100 mA Peak 62.5/125 μm fiber, NA = 0.275
Peak, TA=25°C		-15.1		-7.0		
Peak over temp.						
Fiber Coupled Power (HFE4226-X25)	Poc	-15.0	-12.0	-10.0	dBm	IF = 60 mA Peak 62.5/125 μm fiber, NA = 0.275
Peak, TA=25°C		-16.0		-9.0		
Peak over temp.						
Forward Voltage	V <sub>F</sub>		1.84		V	IF = 100 mA
	V <sub>F</sub>	1.48	1.70	2.09	V	IF = 60 mA
Forward Voltage Temperature Coefficient	ΔV <sub>F</sub> /ΔT		-0.18		mV/°C	IF = 100 mA
	ΔV <sub>F</sub> /ΔT		-0.22		mV/°C	IF = 60 mA
Reverse Voltage	V <sub>BR</sub>	1.8	3.8		V	IF = 10 μA, TA=25°C
Peak Wavelength	λ <sub>P</sub>	810	856	895	nm	IF = 100 mA DC
	λ <sub>P</sub>	810	850	885	nm	IF = 60 mA DC
Spectral Bandwidth (FWHM)			55		nm	IF = 100 mA DC
			50		nm	IF = 60 mA DC
Response Time	t <sub>RP</sub> /t <sub>F</sub>		4.0	6.3	ns	IF = 60 mA peak, No Prebias
Po Temperature Coefficient	ΔP <sub>O</sub> /ΔT		-0.017		dB/°C	IF = 100 mA
	ΔP <sub>O</sub> /ΔT		-0.006		dB/°C	IF = 60 mA
Series Resistance	r <sub>S</sub>		4.0		Ω	DC
Device Capacitance	C		40		pF	V <sub>R</sub> = 0 V, f = 1 MHz
Thermal Resistance			260		°C/W	Heat sunked

#### Notes

1. Typical specifications are for operations at T<sub>O</sub>= 25°C.
2. Poc is measured using a 10 meter mode stripped cable which is intended to accurately represent a working system.

#### ABSOLUTE MAXIMUM RATINGS

Storage temperature	-55 to +85°C
Case operating temperature	-40 to +85°C
Lead solder temperature	269°C, 10 s
Reverse voltage	1.8 V
Continuous forward current (heat sunked)	100 mA

Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods of time may affect reliability.

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# HFE4226

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### ORDER GUIDE

Description	Catalog Listing
Threaded metal barrel and housing, standard power	HFE4226-022
Threaded metal barrel and housing, crimped leads, standard power	HFE4226-422
Threaded metal barrel and housing, extended power	HFE4226-023
Threaded metal barrel and housing, crimped leads, extended power	HFE4226-423

### WARNING

Under certain application conditions, the infrared optical output of this device may exceed Class 1 eye safety limits, as defined by IEC 825-1 (1993-11). Do not use magnification (such as a microscope or other focusing equipment) when viewing the device's output.

### CAUTION

The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product.



Fig. 1 Typical Optical Power Output vs Forward Current

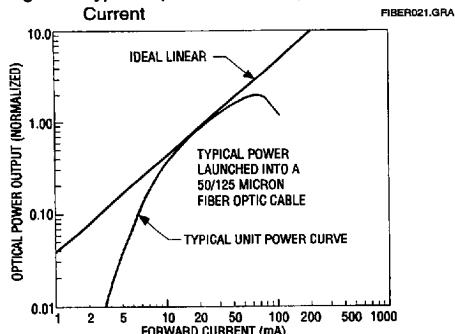


Fig. 2 Typical Spectral Output vs Wavelength

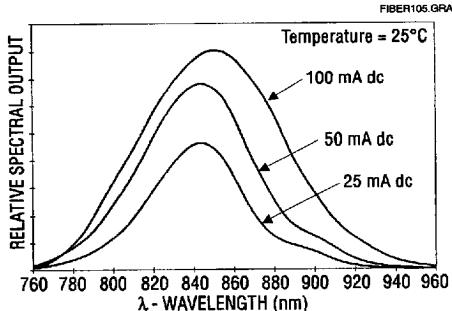
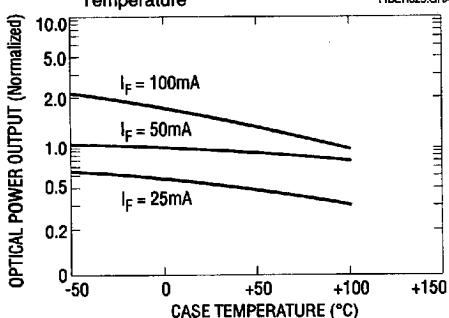


Fig. 3 Typical Optical Power Output vs Case Temperature



All Performance Curves Show Typical Values

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