

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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High Power Infrared LED

Product No: MTE8760N5

Peak Emission Wavelength: 870nm

The MTE8760N5 consists of a 870nm high output infrared die in a water-clear 5mm plastic molded package. Custom package solutions and sorting are available.

FEATURES

- > High Output Power
- > Narrow Beam Angle
- > High Reliability
- > Excellent Optical / Mechanical Axis Alignment

APPLICATIONS

- > Optical Switches & Sensors
- > Optical Position Sensing / Security Systems
- > Medical Applications / Optical Communication
- > Bar-code Reader / Smoke Detector



Absolute Maximum	Ratings (Ta	=25°C)		Pb
ITEMS	SYMBOL	RATINGS	UNIT	lead-free
Forward Current (DC)	IF	100	mA	
Forward Current (Pulse)*1	IFP	1	A	
Reverse Voltage	VR	5	V	
Power Dissipation	PD	180	mW	
Operating Temperature Range	Topr	-20 ~ +80	°C	
Storage Temperature Range	Tstg	-30 ~ +100	°C	
Junction Temperature	Tj	100	°C	
Lead Soldering Temperature*2	Tls	260	°C	

^{*1:} Tw=10µsec, T=10msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optic	al Characteristics	$(Ta = 25^{\circ}C)$
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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA		24.0		mW
Forward Voltage	VF	IF=50mA		1.45	1.8	V
Reverse Current	IR	VR=5V			10	μΑ
Peak Emission Wavelength	λρ	IF=50mA		870		nm
Spectral Line Half Width	Δλ	IF=50mA		45		nm
Half Intensity Beam Angle	θ	IF=50mA		±7		deg
Temperature Coefficiency of PO	P/T	IF=10mA		-0.3		%/°C
Temperature Coefficiency of VF	V/T	IF=10mA		-2.1		mV/°C

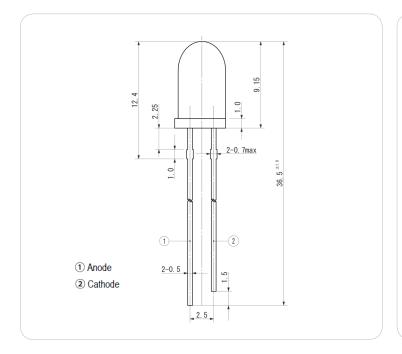
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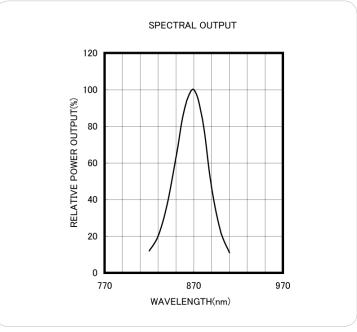


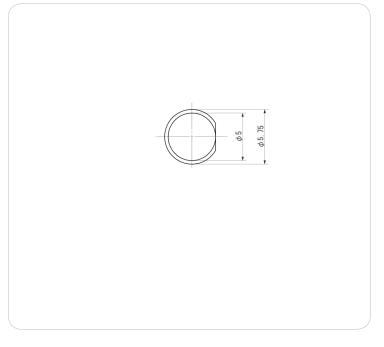


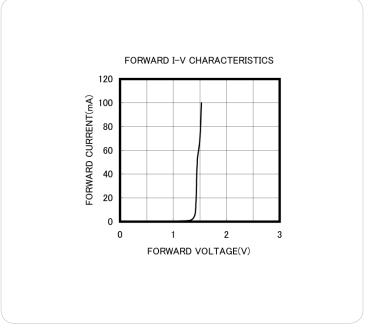


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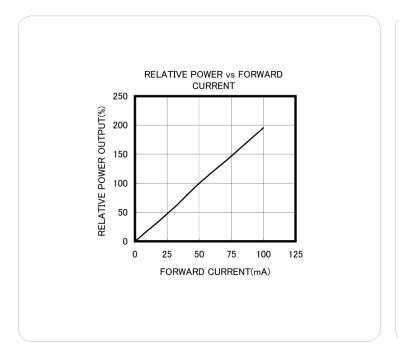


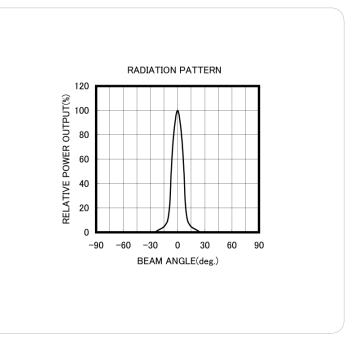
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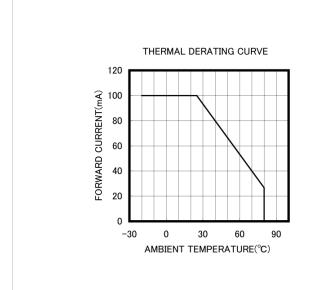


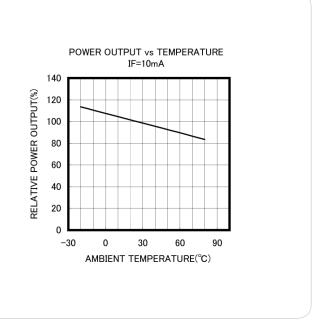


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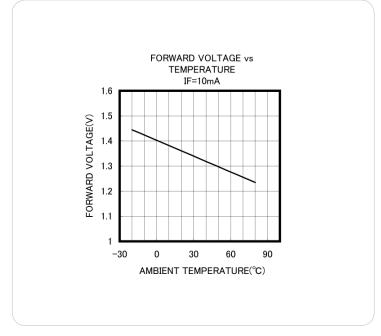








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The information contained herein is subject to change without notice.