

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 Emitter

Product No: MTE8760NJ2

Peak Emission Wavelength: 870nm

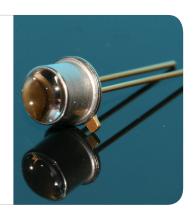
The 870nm high power infrared emitter series is designed for applications requiring high accuracy and precision as well as uniform spectral emission. Custom package solutions and sorting are available.

FEATURES

- > Hermetically Sealed TO-46
- > High Output Power
- > High Reliability
- > Narrow Beam Angle

APPLICATIONS

- > Optical Scanning
- > Linear & Rotary Encoder
- > Edge Sensing / Optical Sensors
- > Optical Switches / Security Systems



Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT		lead-free
Forward Current (DC)	IF	100	mA		
Forward Current (Pulse)*1	IFP	1	А		
Reverse Voltage	VR	5	V		
Power Dissipation	PD	200	mW		
Operating Temperature Range	Topr	-30 ~ +100	°C		
Storage Temperature Range	Tstg	-40 ~ +125	°C		
Junction Temperature	Tj	125	°C		
Lead Soldering Temperature*2	Tls	260	°C		

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

Electrical & Optical Characteristics (Ta = 25°C)

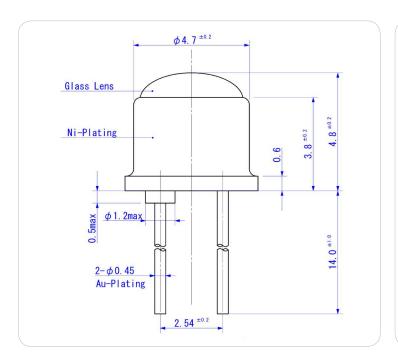
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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA		10.0		mW
Forward Voltage	VF	IF=50mA		1.5	2.0	V
Reverse Current	IR	VR=5V			100	μΑ
Peak Emission Wavelength	λρ	IF=50mA		870		nm
Spectral Line Half Width	Δλ	IF=50mA		45		nm
Half Intensity Beam Angle	Θ	IF=50mA		±6		deg

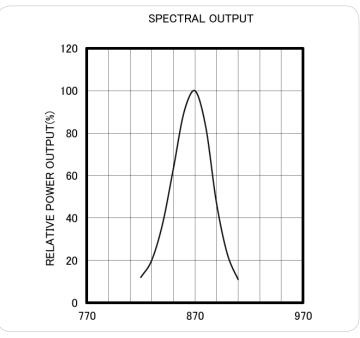
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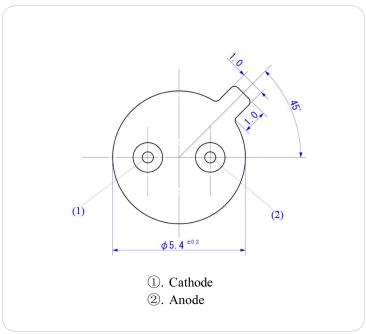


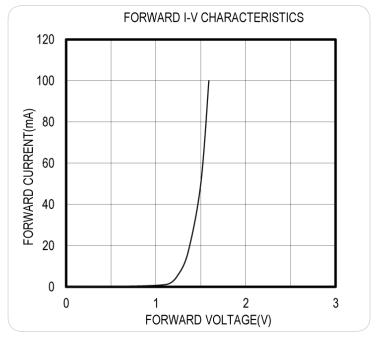


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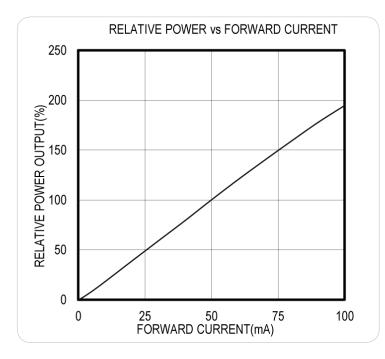


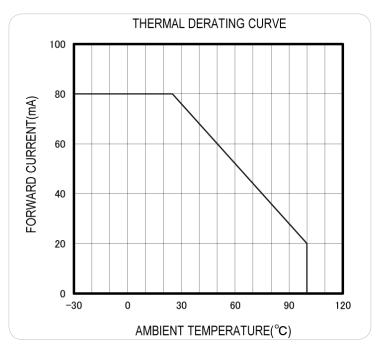


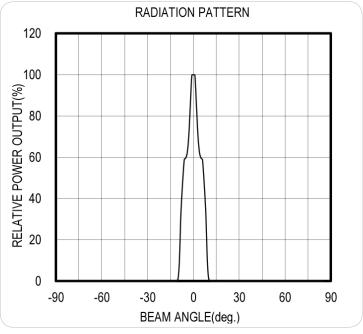
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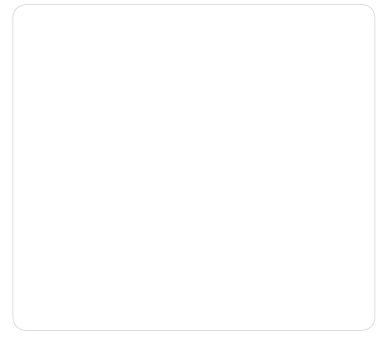
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The information contained herein is subject to change without notice.

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