manuled.com

U.S.-Made IR LED bare die chips (850–940 nm)

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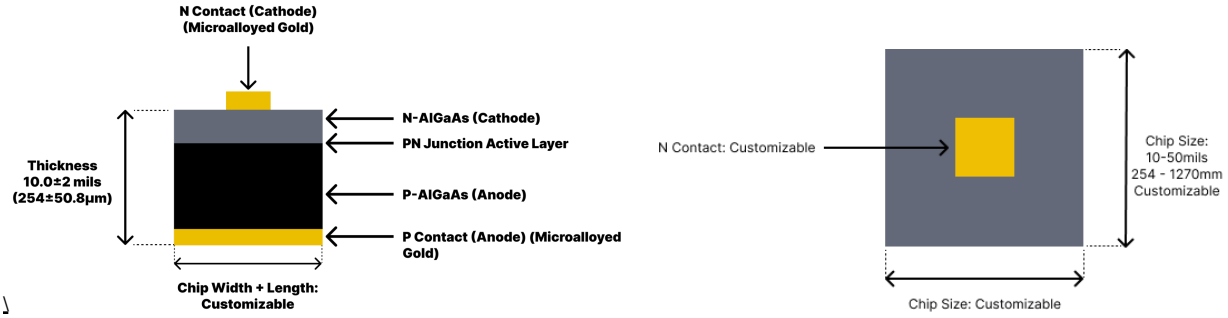
MANULED Infrared LED Bare Die Chip 2025

Radiation	Type	Electrodes
Infrared	AlGaAs/AlGaAs, DDH	N (cathode) up



Optical and Electrical Characteristics

Characteristics					Dimensions			Metallization	
λp[nm] If=20mA	Po[mW] If=20mA	Vf[V] If=20mA	Vr[V] If=10µA	Absolute Maximum Rating [mA]	Chip Size [µm]	Chip Thickness [µm] [Mils]	Top-Side	Top Contact (Cathode)	Bottom Contact (Anode)
850	1.0 - 2.2	1.0 - 1.8	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
860	1.0 - 2.2	1.0 - 1.8	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
870	1.0 - 2.2	1.0 - 1.8	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
880	1.0 - 2.2	1.0 - 1.8	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
890	1.0 - 2.2	1.0 - 1.8	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
900	1.0 - 2.2	1.0 - 1.6	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
910	1.0 - 2.2	1.0 - 1.6	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
920	1.0 - 2.2	1.0 - 1.6	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
930	1.0 - 2.2	1.0 - 1.6	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.
940	1.0 - 2.2	1.0 - 1.6	5	80	Customizable	254±50 µm 10±2 Mils	N Cathode	14000 Å MIN. Au.	8000 Å MIN. Au.

⚠️ Note: Each row above represents a separate LED chip designed for a specific peak emission wavelength. Chips do not emit uniformly across the 850–940 nm range.

Packing

Chips on adhesive film with wire bond side up

Pricing

Unit Price (<1M): Starting from $0.10, Unit Price (≥1M): Starting from $0.7