

Products

Surface Emitting LED

600nm~

700nm~

800nm~

900nm~

1,000nm~

1,500nm~

600nm~

| Part No. | Characteristics | | | | Dimensions | | |
|----------|-----------------------------|-------------------|------------------|-----------------------------|----------------|---------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating[mA] | Chip Size [μm] | Chip Thickness [μm] | Top-Side |
| PR7A | 660 | 1.8 | 2.0 | 50 | 280*280 | 160 | N |
| PR5J | 670 | 2.3 | 2.2 | 50 | 320*320 | 160 | N |

700nm~

| Part No. | Characteristics | | | | Dimensions | | |
|----------|-----------------------------|-------------------|------------------|-----------------------------|----------------------|---------------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating[mA] | Chip Size [μ m] | Chip Thickness [μ m] | Top-Side |
| NR4J-33 | 730 | 4.5 | 2.0 | 50 | 320*320 | 150 | N |
| NR4J-43 | 740 | 4.0 | 2.0 | 50 | 320*320 | 150 | N |
| NR4J-63 | 760 | 3.5 | 2.0 | 50 | 320*320 | 150 | N |
| NR4J-83 | 780 | 3.5 | 2.0 | 50 | 320*320 | 150 | N |

800nm~

| Part No. | Characteristics | | | | Dimensions | | |
|-------------|-----------------------------|-------------------|------------------|-----------------------------|----------------------|---------------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating[mA] | Chip Size [μ m] | Chip Thickness [μ m] | Top-Side |
| SD03S | 810 | 10.5 | 1.8 | 120 | 350*350 | 180 | N |
| I36J | 830 | 5.0 | 1.6 | 100 | 320*320 | 180 | N |
| SJ03S | 830 | 9.8 | 1.8 | 120 | 350*350 | 180 | N |
| I56J | 850 | 5.3 | 1.6 | 100 | 320*320 | 180 | N |
| I56R | 850 | 5.3 | 1.6 | 100 | 370*370 | 180 | N |
| IP4KN5 V | 850 | 4.5 | 1.6 | 80 | 280*280 | 160 | P |

| | | | | | | | |
|-------------|-----|------|-----|-----|---------|-----|---|
| IP4JN5V | 850 | 4.8 | 1.6 | 100 | 320*320 | 160 | P |
| SB03S | 850 | 10.5 | 1.8 | 120 | 350*350 | 180 | N |
| SH03Q | 850 | 9.8 | 1.8 | 120 | 350*350 | 100 | N |
| S1FRS | 850 | 8.0 | 1.6 | 120 | 350*350 | 180 | N |
| SH05Q | 850 | 7.7 | 1.8 | 50 | 250*250 | 100 | N |
| IR4JS | 870 | 5.3 | 1.6 | 100 | 320*320 | 150 | N |
| IR6RS | 870 | 5.3 | 1.6 | 100 | 370*370 | 150 | N |
| SC03S | 880 | 10.3 | 1.6 | 120 | 350*350 | 180 | N |
| SC01S | 880 | 9.5 | 1.6 | 100 | 320*320 | 180 | N |
| S3FRS | 880 | 8.0 | 1.6 | 120 | 350*350 | 180 | N |
| S3ABS | 880 | 7.0 | 1.6 | 50 | 250*250 | 180 | N |
| IR6J-84 | 885 | 4.8 | 1.6 | 100 | 320*320 | 160 | N |
| FR4GF6 7 | 890 | 1.3 | 1.6 | 50 | 280*280 | 150 | N |

900nm~

| Part No. | Characteristics | | | | Dimensions | | |
|----------|-----------------------------|-------------------|------------------|------------------------------|----------------|---------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating [mA] | Chip Size [μm] | Chip Thickness [μm] | Top-Side |
| | | | | | | | |

| | | | | | | | |
|-------------|-----|-----|-----|-----|---------|-----|---|
| I96J | 900 | 3.5 | 1.6 | 100 | 320*320 | 160 | N |
| FR4GF7 7 | 910 | 1.8 | 1.6 | 50 | 280*280 | 150 | N |
| FP6RF8 6 | 940 | 0.9 | 1.4 | 50 | 370*370 | 280 | P |
| FP6E | 940 | 2.5 | 1.5 | 50 | 240*240 | 160 | P |
| SA03S | 950 | 8.4 | 1.6 | 120 | 350*350 | 180 | N |
| SG01Q | 950 | 8.2 | 1.6 | 100 | 320*320 | 100 | N |
| S0FRS | 950 | 7.0 | 1.5 | 120 | 350*350 | 180 | N |
| S0ABS | 950 | 5.8 | 1.5 | 50 | 250*250 | 180 | N |
| S0ABQ | 950 | 5.8 | 1.5 | 50 | 250*250 | 100 | N |
| SG05Q | 950 | 6.8 | 1.6 | 50 | 250*250 | 100 | N |
| SK03S | 980 | 7.6 | 1.6 | 120 | 350*350 | 180 | N |

1,000nm~

| Part No. | Characteristics | | | | Dimensions | | |
|----------|-----------------------------|-------------------|------------------|------------------------------|----------------|---------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating [mA] | Chip Size [μm] | Chip Thickness [μm] | Top-Side |
| SE03S | 1,040 | 6.9 | 1.6 | 120 | 350*350 | 180 | N |
| S8FRS | 1,040 | 5.0 | 1.5 | 100 | 350*350 | 180 | N |

| | | | | | | | |
|--------|-------|-----|-----|-----|---------|-----|---|
| S7FRS | 1,070 | 5.0 | 1.5 | 100 | 350*350 | 180 | N |
| E2AFRS | 1,200 | 3.6 | 1.0 | 100 | 350*350 | 180 | N |
| E3AFRS | 1,300 | 3.5 | 1.0 | 100 | 350*350 | 180 | N |
| E4AFRS | 1,460 | 2.6 | 0.9 | 100 | 350*350 | 180 | N |

1,500nm~

| Part No. | Characteristics | | | | Dimensions | | |
|----------|-----------------------------|-------------------|------------------|------------------------------|----------------------|---------------------------|----------|
| | λ_p [nm] If=20mA | Po[mW] If=20mA | Vf[V] If=20mA | Absolute Maximum Rating [mA] | Chip Size [μ m] | Chip Thickness [μ m] | Top-Side |
| E5AFRS | 1,550 | 1.9 | 0.9 | 100 | 350*350 | 180 | N |
| E6AFRS | 1,650 | 1.9 | 0.9 | 100 | 350*350 | 180 | N |

Point Source LED

600nm~

800nm~

600nm~

| Part | Characteristics | | | Dimensions | | |
|------|-----------------|-------|------|------------|--|--|
| | Po[mW] | Emmis | Chip | | | |

| No. | λ_p [nm] If=16mA | η If=16mA | Vf[V] If=16mA | emission Area[μ m] | Chip Size [μ m] | Thickne ss [μ m] | Top- Side |
|-------------|-----------------------------|-------------------|------------------|----------------------------|----------------------------|-----------------------------|--------------|
| PRCFJ5 W | 650 | 1.2 | 1.9 | ϕ 150 | 250*400 | 180 | P |

800nm~

| Part No. | Characteristics | | | Dimensions | | | |
|-------------|-----------------------------|-----------------------------|------------------|-------------------------------|----------------------------|-------------------------------------|--------------|
| | λ_p [nm] If=16mA | Po[mW] η If=16mA | Vf[V] If=16mA | Emmis on Area[μ m] | Chip Size [μ m] | Chip Thickne ss [μ m] | Top- Side |
| IR3MH | 850 | 0.8 | 1.8 | ϕ 80 | 190*330 | 280 | P |
| IR4MS | 860 | 1.0 | 1.5 | ϕ 85 | 190*330 | 180 | P |
| IR3SH | 870 | 1.6 | 1.6 | ϕ 150 | 345*345 | 350 | P |

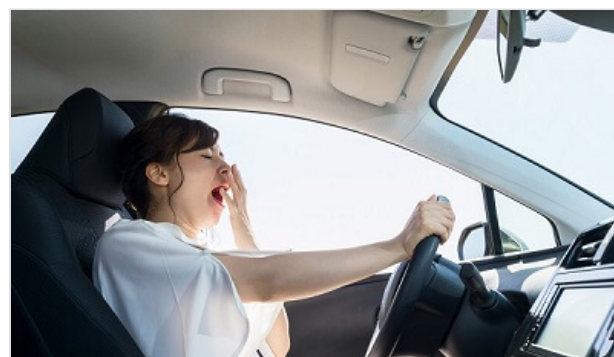
If you need more information, please contact us.

Specification and dimension are subject to change without notice.

Related Links

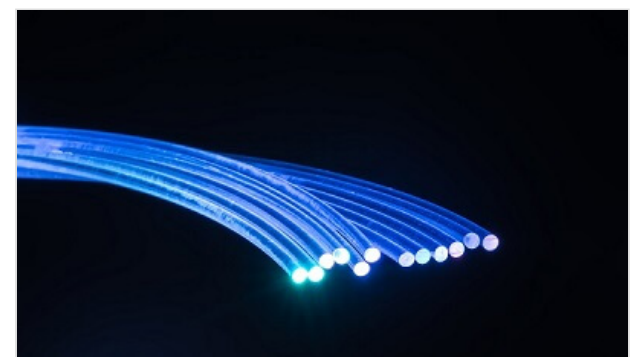


What is SWIR?



What is MIR?

DOWA is planning to release MIR in 2019.



Point source LED

DOWA's Short Wave IR LED covers from 1,000nm to 1,650nm and our LED has the highest power in the world.

> and more

DOWA's point source LEDs are customizable, such as chip size, aperture, aperture shape and so on.

> and more

Contact us

| | |
|--------------------|-------------------|
| Japan(Head Office) | +81 3-6847-1253 |
| China | +86 755-2160-7358 |
| USA | +1 408-23-7560 |
| EU | +49 911-56989-320 |

Contact Us



HOME

Products

Technology

- > SWIR LED
- > Point Source LED

About us

News

FAQ

Contact us

Privacy policy
map

Site

Copyright © 2019 DOWA Electronics Materials Co., Ltd. All Rights Reserved.