

Opto-Electronic Devices (NEPOC)

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• Light-Emitting Diodes

| Color | Package | Type No. | Material | λ_p (nm) |
|--|--|---|-----------------|------------------|
| Red | TO-18 (Clear Plastic) | SR101C | GaAsP | 660 |
| | TO-18 (Clear Glass) | SR102 | GaAsP | 660 |
| | TO-18 (Red Diffused Plastic) | SR104D | GaAsP | 660 |
| | TO-18 (Red Diffused Plastic) | SR104DA | GaAsP | 660 |
| | 3 ϕ Plastic Molded (Clear Plastic) | SR505C, SR615C | GaP, GaAsP (N) | 630 |
| | 3 ϕ Plastic Molded (Red Diffused Plastic) | SR505D, SR615D | GaP, GaAsP (N) | 630 |
| | 5 ϕ Plastic Molded (Clear Plastic) | SR503C, SR513C | GaP | 695 |
| | 5 ϕ Plastic Molded (Red Diffused Plastic) | SR503D, SR513D | GaP | 695 |
| | 5 ϕ Plastic Molded (White Diffused Plastic) | SR503W, SR513W | GaP | 695 |
| | 5 ϕ Plastic Molded (Red Diffused Plastic) | SR603D, SR613D | GaAsP (N) | 630 |
| | 5 ϕ Plastic Molded (Clear Plastic) | SR603C, SR613C | GaAsP (N) | 630 |
| | 5 ϕ Plastic Molded (White Diffused Plastic) | SR603W, SR613W | GaAsP (N) | 630 |
| | Green | 5 ϕ Plastic Molded (Green Clear Plastic) | SG203TA, SG213T | GaP |
| 5 ϕ Plastic Molded (Green Diffused Plastic) | | SG203DA, SG213D | GaP | 565 |
| TO-18 (Green Diffused Plastic) | | SG204D | GaP | 565 |
| 3 ϕ Plastic Molded (Green Clear Plastic) | | SG205T, SG215T | GaP | 565 |
| 3 ϕ Plastic Molded (Green Diffused Plastic) | | SG205D, SG215D | GaP | 565 |
| Amber | 5 ϕ Plastic Molded (Amber Clear Plastic) | SY403TA, SY413T | GaAsP | 590 |
| | 5 ϕ Plastic Molded (Amber Diffused Plastic) | SY403DA, SY413D | GaAsP | 590 |
| | TO-18 (Amber Clear Plastic) | SY404T | GaAsP | 590 |
| | TO-18 (Amber Diffused Plastic) | SY404D | GaAsP | 590 |
| | 3 ϕ Plastic Molded (Amber Clear Plastic) | SY405T, SY415T | GaAsP | 590 |
| | 3 ϕ Plastic Molded (Amber Diffused Plastic) | SY405D, SY415D | GaAsP | 590 |
| Infrared | TO-18 (Clear Glass) | SE301A | GaAs | 940 |

• Photo-Transistors

| Package | Type No. | Features |
|----------------------|----------------|--------------------------------|
| Small Plastic Molded | PH103 PH104 | High sensitivity High speed |
| TO-18 (Clear Glass) | PT8L | High reliability |

• Photo-Couplers

| Type No. | Package | Features |
|----------|-----------|-----------------------|
| PS1001 | TO-5 | High reliability |
| PS2010 | 6-pin DIP | General purpose |
| PS2021 | 6-pin DIP | " (Viso \geq 4KVAC) |
| PS2022 | 6-pin DIP | " (High CTR) |

• Photo-Diodes

| Type No. | Package |
|----------|-----------|
| PH301 | Metal Can |

(ϕ in mm)

• Photo-Interrupters

| Type No. | Width of Slit (mm) |
|----------|--------------------|
| PS4001 | 2.5 |
| PS4003 | 2.5 |
| PS4005 | 4.2 |
| PS4007 | 4.2 |
| PS4008 | 2.5 |
| PS4009 | 4.2 |
| PS4010 | 3.2 |
| PS4011 | 3.0 |

Thyristors

| Package | | Power Mini Mold | TO-92 | MP7 (TO-202AA) | | | | | | MP25 (TO-220AB) | | | |
|------------------------|-------------|-----------------|---------|----------------|---------|------|--------|-------|------|-----------------|------|------|------|
| I_T (RMS) | A | | 0.47 | 4 | 4 | 4 | 4.7 | 4.7 | 4.7 | 8 | 8 | 12 | |
| I_T (AV) | A | | 0.3 | 2 | 2.5 | 2 | 3 | 3 | 3 | 5.1 | 5.1 | 8 | |
| I_{TSM} | A | | 8 | 20 | 35 | 20 | 65 | 65 | — | 80 | — | 100 | |
| T_J | $^{\circ}C$ | | 125 | 110 | 125 | 110 | 125 | 125 | 125 | 110 | 125 | 125 | |
| V_{DRM} V_{RRM} | 50 | V | | 2P05M | | | | | | 5P05M | | | |
| | 60 | | N203YY | | | | | | | | | | |
| | 100 | | N203A | 2P1M | | 3P1M | 3P1MH | | 5P1M | | 8P1M | | |
| | 200 | | 03P2J | N203B | 2P2M | 2S2M | 3P2M | 3P2MH | 5P2M | | 8P2M | | |
| | 300 | | | N203C | | 2S3M | | | | | | | |
| | 400 | | 03P4J | N203D | 03P4MGC | 2P4M | 2V5P4M | 2S4M | 3P4M | 3P4MH | 3S4M | 5P4M | 5S4M |
| | 500 | | | | 03P5MGC | 2P5M | 2V5P5M | | 3P5M | | | 5P5M | |
| 600 | | | 03P6MGC | 2P6M | 2V5P6M | | 3P6M | | | 5P6M | | | |
| I_{GT} | mA | 0.2 | 0.2 | 50 μ A | 0.2 | 0.1 | 0.3 | 5 | 0.2 | 30 | 15 | 50 | 15 |
| t_q (TYP.) | μ s | 25 | 15 | 100 | 80 | 80 | 15 | 100 | 100 | 5 | 80 | 5 | 80 |