

Mounting Position: Any

Weight: 0.003 ounces, 0.093 gram

- · Low profile package with built-in strain relief for surface mounted applications
- 50 Amp (10/1000μs) available in SMA package

Maximum Ratings and Thermal Characteristics TA= 25°C unless otherwise noted.

| Parameter | | Symbol | AA | Α | С | Unit |
|------------------------------------------------------------------------------|---------------------|------------------|-------------|-----------|------------|-------|
| Case outline | | - | SMA | SN | ИВ | _ |
| Peak Pulse Current | 10/1000µs 8/20µs | IPP | 50 200 | 50 200 | 100 300 | А |
| Non-repetitive surge peak on-state current at 60Hz | | Ітѕм | 20 | 20 | 60 | A |
| Critical rate of rise of off-state voltage (VRM) | | dV/dt | 5 | | | KV/µs |
| Storage temperature range | | Tstg | -55 to +150 | | | °C |
| Junction temperature range | | Tj | -40 to 150 | | | °C |
| Thermal resistance junction to leads | | R _{θJL} | 3 | 0 | 20 | °C/W |
| Thermal resistance junction to ambient on P.C.B. with recommended pad layout | | RθJA | 12 | 20 | 90 | °C/W |

IPP Ratings for the Following Surge Standards

| • | 0 0 | | |
|--------------|-----------|-------------------|---------|
| Standard | Waveform | IPP (A, AA) | IPP (C) |
| GR-1089-CORE | 2/10µs | 300A+ | 500A |
| IEC61000-4-5 | 8/20µs | 200A+ | 300A |
| FCC Part 68 | 10/160µs | 120A ⁺ | 250A+ |
| ITU-TK20/21 | 10/700µs | 100A | 200A |
| FCC Part 68 | 10/560µs | 75A+ | 160A+ |
| GR-1089-CORE | 10/1000µs | 50A+ | 100A |

Values with ⁺ have improved IPP specs over equivalent competitor part numbers

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Vishay Semiconductors formerly General Semiconductor

| | Stand-off Voltage | Max. Reverse Leakage at Vdrм | Maximum Breakover Voltage | Maximum Breakover Current | Max. On-State Voltage at I⊤ = 1A | Minimum Holding Current | Typi Capac C (p | itance |
|---------|----------------------|------------------------------------|---------------------------------|---------------------------------|----------------------------------------|-------------------------------|-----------------------|--------|
| Туре | V _{DRM} (V) | Idrm (µA) | VBO (V) ⁽¹⁾⁽³⁾ | Іво (mA) ⁽¹⁾ | Vт (V) | Iн (mA) | AA, A | С |
| P0640S_ | 58 | 5 | 70* | 800 | 3.0 | 150 | 75 | 115 |
| P0720S_ | 65 | 5 | 80* | 800 | 3.0 | 150 | 70 | 115 |
| P0900S_ | 75 | 5 | 95* | 800 | 3.0 | 150 | 66 | 115 |
| P1100S_ | 90 | 5 | 115* | 800 | 3.0 | 150 | 60 | 75 |
| P1300S_ | 120 | 5 | 145* | 800 | 3.0 | 150 | 50 | 70 |
| P1500S_ | 140 | 5 | 180 | 800 | 3.0 | 150 | 45 | 65 |
| P1800S_ | 160 | 5 | 220 | 800 | 3.0 | 150 | 45 | 65 |
| P2300S_ | 190 | 5 | 250* | 800 | 3.0 | 150 | 45 | 65 |
| P2600S_ | 220 | 5 | 290* | 800 | 3.0 | 150 | 40 | 65 |
| P3100S_ | 275 | 5 | 350 | 800 | 3.0 | 150 | 40 | 60 |
| P3500S_ | 320 | 5 | 395* | 800 | 3.0 | 150 | 35 | 60 |

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Notes: (1) dv/dt = 100V/µs

(2) V_R = 2V, f = 1MHz

(3) Values with * have improved VBO specs over equivalent competitor part numbers

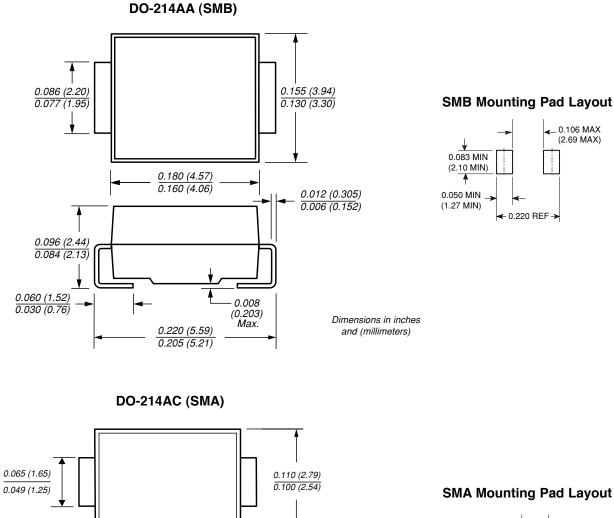
Device Marking

| Туре | Suffix | | | | | |
|---------|--------|------|------|--|--|--|
| | AA | А | C | | | |
| P0640S_ | 06A | P06A | P06C | | | |
| P0720S_ | 07A | P07A | P07C | | | |
| P0900S_ | 09A | P09A | P09C | | | |
| P1100S_ | 11A | P11A | P11C | | | |
| P1300S_ | 13A | P13A | P13C | | | |
| P1500S_ | 15A | P15A | P15C | | | |
| P1800S_ | 18A | P18A | P18C | | | |
| P2300S_ | 23A | P23A | P23B | | | |
| P2600S_ | 26A | P26A | P26B | | | |
| P3100S_ | 31A | P31A | P31C | | | |
| P3500S_ | 35A | P35A | P35C | | | |



PxxxxSA/C/AA Series

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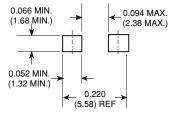
0.012 (0.305)

0.006 (0.152)

0.177 (4.50) 0.157 (3.99)

0.208 (5.28)

0.008 (0.203) MAX.



0.090 (2.29) 0.078 (1.98)

0.060 (1.52)

0.030 (0.76)



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