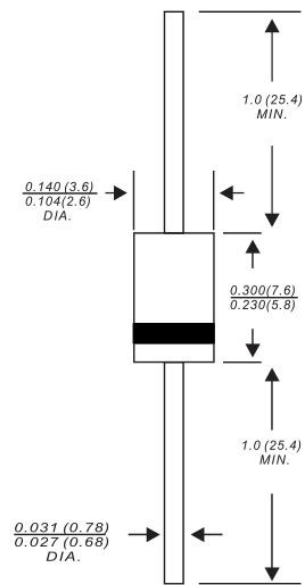


SR220L THRU SR2200L
VOLTAGE RANGE 20 to 200 Volts
CURRENT 2.0 Ampere
Features

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
250°C/10 seconds, 0.373" (9.5mm) lead length

Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.012ounce, 0.39 grams


DO-15

Maximum Ratings and Electrical Characteristics

- Ratings at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

| TYPE NUMBER | SYMBOLS | SR2 20L | SR2 40L | SR2 60L | SR2 80L | SR2 100L | SR2 150L | SR2 200L | UNIT |
|--|---------------------------|---------------|---------|---------|---------|----------|----------|----------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 40 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum RMS Voltage | V_{RMS} | 14 | 28 | 42 | 56 | 70 | 105 | 140 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 40 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum Average Forward Rectified Current at TL see figure 1 TL = 100°C | $I_{(AV)}$ | 2.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 60 | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage @ 2.0A (Note 1) | V_F | 0.45 | 0.55 | 0.70 | | 0.85 | | Volts | |
| Maximum DC Reverse Current at rated DC Blocking Voltage per element | $T_A = 25^\circ\text{C}$ | 0.5 | | | | | 0.15 | | mA |
| | $T_A = 100^\circ\text{C}$ | 20 | | | 10 | | 1.5 | | |
| Typical thermal resistance (NOTE 2) | $R_{\theta JA}$ | 40 | | | | | | | °C/W |
| | $R_{\theta JL}$ | 13 | | | | | | | |
| Operating Junction Temperature | T_J | (-55 to +150) | | | | | | | °C |
| Storage Temperature Range | T_{STG} | (-55 to +150) | | | | | | | °C |

Notes:

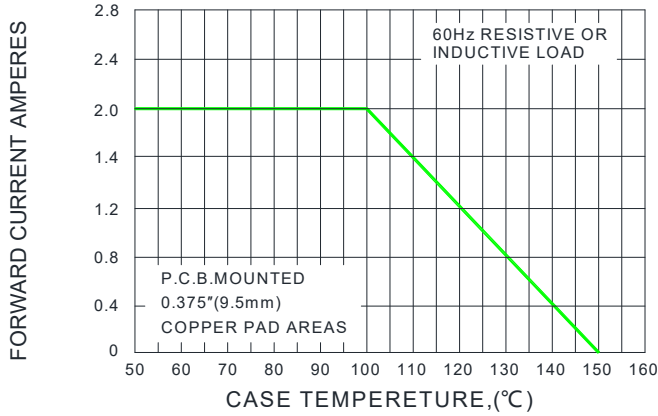
1. Pulse test: 300µs pulse width, 1% duty cycle.
2. Thermal Resistance from junction to Ambient at .375" (9.5mm) lead length, P.C. board mounted.

SR220L THRU SR2200L

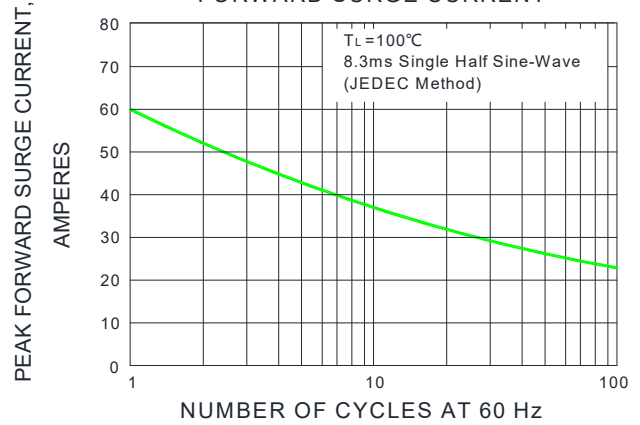
VOLTAGE RANGE 20 to 200 Volts
CURRENT 2.0 Ampere

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

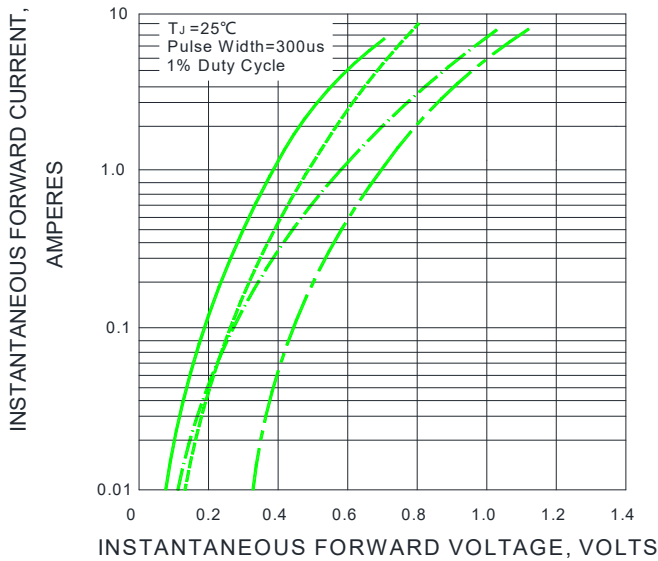
F1G.1-FORWARD CURRENT DERATING CURVE



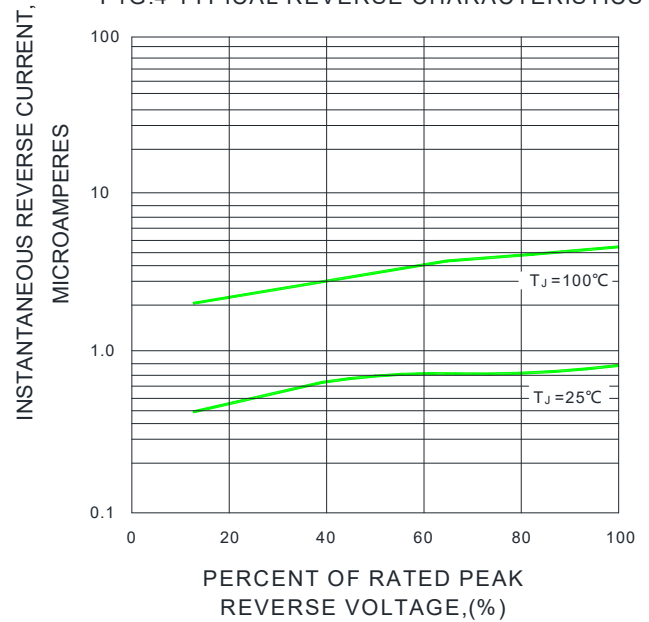
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



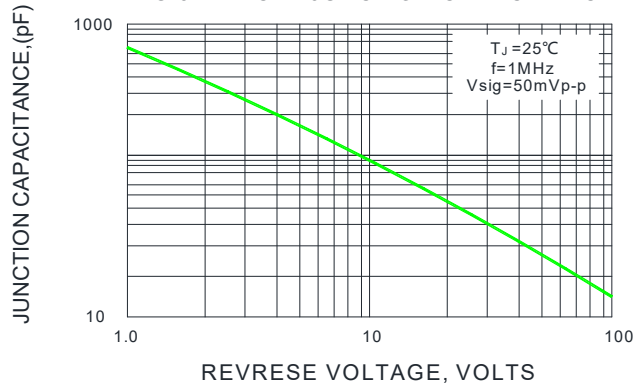
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



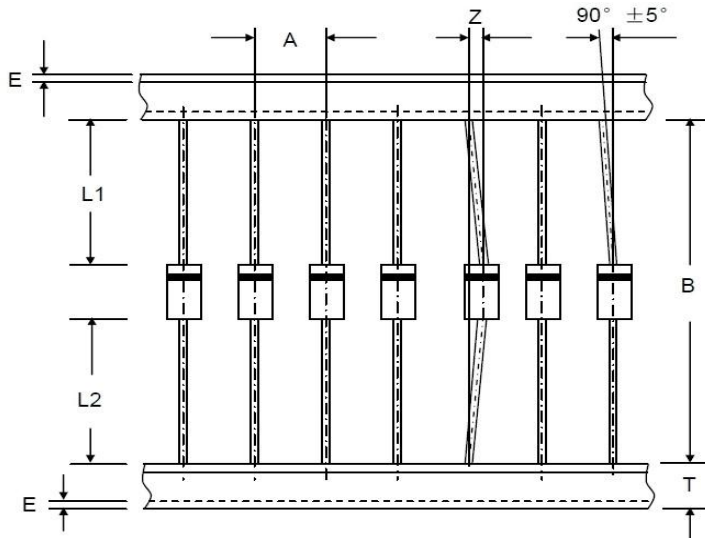
F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



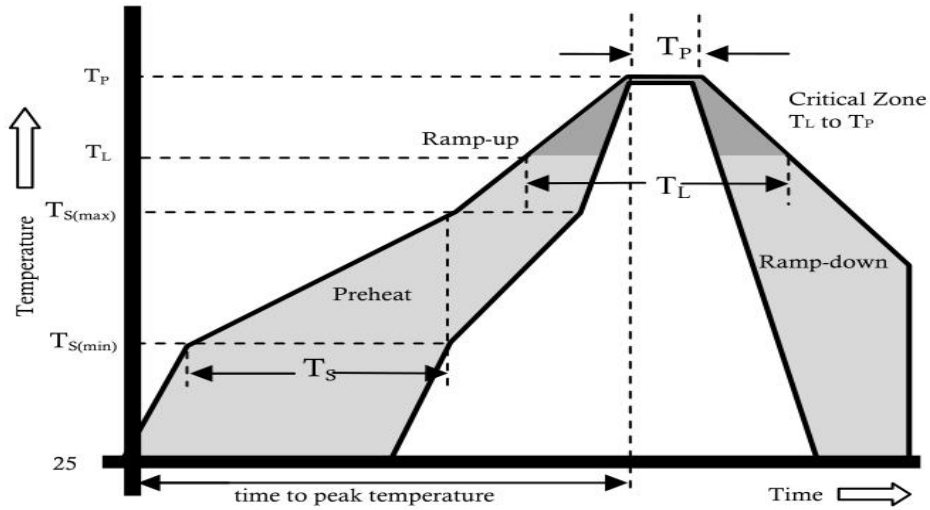
Axial Lead Taping Specifications for Rectifiers



| Component Outline | Component Pitch A | Inner Tape Pitch B | | Cumulative Tolerance |
|-------------------|-------------------|--------------------|--------|----------------------|
| | ±0.5mm | +0.5mm | -0.4mm | |
| DO-204AC(DO-15) | 5.0mm | 52.4mm | 26.0mm | 2.0mm/20pitch |

| Item | Symbol | Specifications(mm) | Specifications(inch) |
|---------------------|--------|--------------------|----------------------|
| Component alignment | Z | 1.2 max | 0.048 max |
| Tape width | T | 6.0±0.4 | 0.236±0.016 |
| Exposed adhesive | E | 0.8 max | 0.032 max |
| Body eccentricity | L1-L2 | 1.0 max | 0.040 max |

Reflow Profile



| Reflow Condition | | Pb-Free Assembly |
|--|---------------------------------|------------------|
| Pre Heat | Temperature Min. | +150°C |
| | Temperature Max. | +200°C |
| | Time(Min to Max) | 60-180 secs. |
| Average ramp up rate(Liquidus Temp(T_L) to peak) | | 3°C/sec. Max. |
| TS(max) to T_L - Ramp-up Rate | | 3°C/sec. Max. |
| Reflow | Temperature (T_L)(Liquidus) | +217°C |
| | Temperature (T_L) | 60-150 secs. |
| Peak Temp (T_P) | | +(260+0/-5) °C |
| Time within 5°C of actual Peak Temp (T_P) | | 25 secs. |
| Ramp-down Rate | | 6°C/sec. Max. |
| Time 25°C to peak Temp (T_P) | | 8 min. Max. |
| Do not exceed | | +260°C |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [LangJie](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRA140TRPBF](#)
[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)
[NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#)
[ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#) [PDS1040Q-13](#) [B160BQ-13-F](#)
[SDM05U20CSP-7](#) [BAS 70-07 E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#) [HSM190Je3/TR13](#) [B330AF-13](#)
[ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#)