



2A Leaded Type Schottky Barrier Rectifiers

■ Features

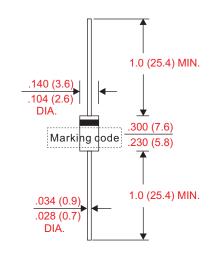
- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SR22~SR26).
 standard >10KV(SR210~SR220).
- Axial lead type devices for through hole design.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- · Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.SR22G.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- · Case: Molded plastic, DO-204AC / DO-15
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Weight: Approximated 0.39 gram

Outline

DO-15(DO-204AC)



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

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

| Parameter | Conditions | Symbol | MIN. | TYP. | MAX. | UNIT | | |
|----------------------------|--|------------------|------|------|-------|------|--|--|
| Forward rectified current | See Fig.1 | Io | | | 2.0 A | | | |
| Forward surge current | 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | I _{FSM} | | | 50 | Α | | |
| D | $V_R = V_{RRM} T_A = 25^{\circ}C$ | _ | | | 0.5 | mA | | |
| Reverse current | $V_R = V_{RRM} T_A = 100^{\circ}C$ | I _R | | | 20 | | | |
| Diode junction capacitance | f=1MHz and applied 4V DC reverse voltage | C | | 30 | | pF | | |
| Thermal resistance | Junction to ambient | R _{eJA} | | 50 | | °C/W | | |
| Storage temperature | | T _{STG} | -55 | | +175 | °C | | |

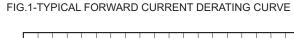
| Symbol | Marking code | Max. repetitive peak reverse voltage V _{RRM} (V) | Max. RMS voltage V _{RMS} (V) | Max. DC blocking voltage $V_{_{\mathbb{R}}}(V)$ | Max. forward voltage $@2A, T_A = 25^{\circ}C$ $V_F(V)$ | Operating temperature T _J (°C) | |
|--------|--------------|---|---|---|--|---|--|
| SR22 | SR22 | 20 | 14 | 20 | 0.45 | -50 ~ +150 | |
| SR24 | SR24 | 40 | 28 | 40 | 0.50 | | |
| SR26 | SR26 | 60 | 42 | 60 | 0.70 | | |
| SR210 | SR210 | 100 | 70 | 100 | 0.81 | | |
| SR215 | SR215 | 150 | 105 | 150 | 0.87 | -50 ~ +175 | |
| SR220 | SR220 | 200 | 140 | 200 | 0.90 | -50~+1/5 | |

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■ Rating and characteristic curves



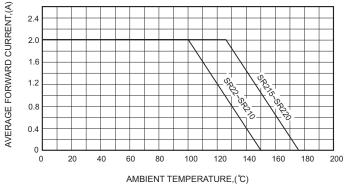


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

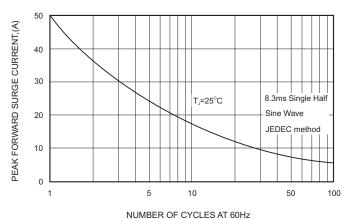


FIG.4-TYPICAL JUNCTION CAPACITANCE

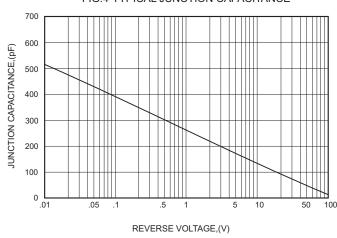


FIG.2-TYPICAL FORWARD

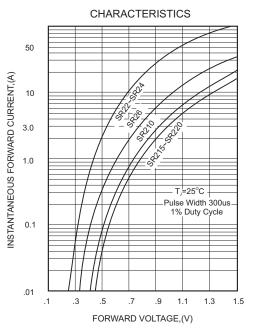
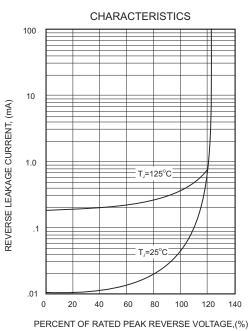


FIG.5 - TYPICAL REVERSE



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http://www.citcorp.com.tw/

Tel:886-3-5600628

Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

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