

RS5AC THRU RS5MC

Features

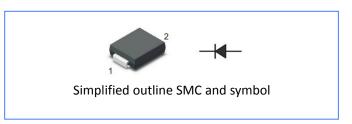
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

Case: SMC

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.22g / 0.0077oz



| Pinning | |
|---------|-------------|
| PIN | DESCRIPTION |
| 1 | Cathode |
| 2 | Anode |

Absolute Maximum Ratings And Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

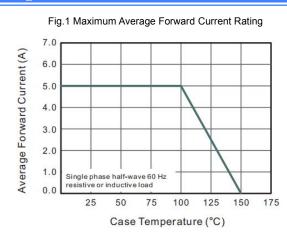
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

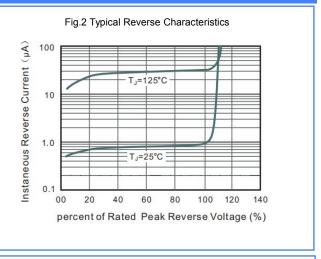
| Parameter | Symbols | RS5AC | RS5BC | RS5DC | RS5GC | RS5JC | RS5KC | RS5MC | Units |
|---|-----------------------------------|-------------|-------|-------|-------|-------|-------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at Tc = 125 °C | I _{F(AV)} | 5 | | | | | | | А |
| Peak Forward Surge Current 8.3 ms Single | | | | | | | | | |
| Half Sine Wave Superimposed on Rated | I _{FSM} 120 | | | | | | | A | |
| Load | | | | | | | | | |
| Maximum Forward Voltage at 1 A | VF | 1.3 | | | | | | V | |
| Maximum DC Reverse Current Ta = 25 °C | l- | 5 100 | | | | | | | |
| at Rated DC Blocking Voltage Ta =125 °C | I _R | | | | | | | | |
| Typical Junction Capacitance | C _i | 50 | | | | | | | |
| at VR=4V f=1M | Oj | | | | | | | | |
| Maximum Reverse Recovery Time(1) | trr | 150 250 500 | | | | | 00 | ns | |
| Typical Thermal Resistance (2) | RөJA | 35 | | | | | | | °C/W |
| Typical Trieffilal Resistance (=/ | Rejc | 13 | | | | | | | |
| Operating and Storage Temperature Range | T _j , T _{stg} | -55 ~ +150 | | | | | | $^{\circ}$ | |

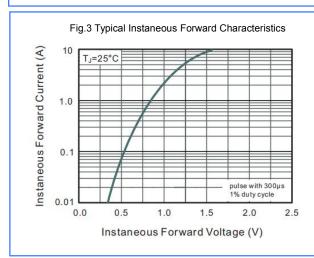
- (1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A
- (2) .P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

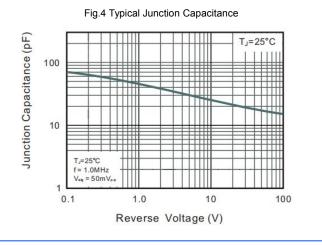


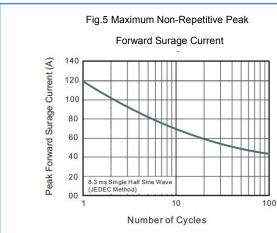
Rating And Characteristic Curves









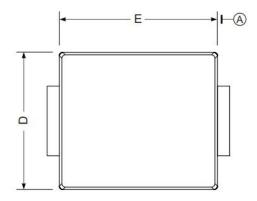


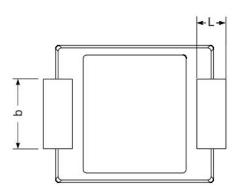
www.yint.com.cn 2 Rev:19.3

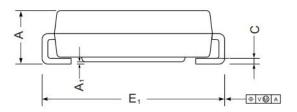
Package Outline

Plastic surface mounted package; 2 leads



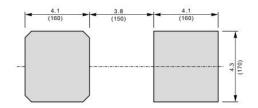






| UNIT | | Α | С | D | E1 | A 1 | L | b | Е |
|------|-----|------|------|-----|-----|------------|-----|------|-----|
| mm | max | 2.62 | 0.31 | 6.2 | 8.0 | 0.21 | 1.6 | 3.25 | 7.0 |
| | min | 2.00 | 0.15 | 5.6 | 7.6 | 0.05 | 0.9 | 2.75 | 6.5 |
| mil | max | 103 | 15 | 244 | 315 | 8.3 | 63 | 128 | 276 |
| | min | 79 | 6.9 | 220 | 299 | 2.0 | 35 | 108 | 256 |

The recommended mounting pad size



Unit :
$$\frac{mm}{(mil)}$$