

► Features

- Low profile package
- Ideal for automated placement
- Glass passivated pallet chip junction
- Super fast reverse recovery time
- Fast switching for high efficiency
- High forward surge capability

► Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive, and telecommunication.

► Mechanical Data

- Case: DO-214AC(SMA)
- Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

► Maximum Ratings (Ta=25°C Unless otherwise specified)

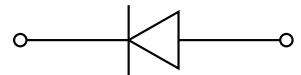
| PARAMETER | SYMBOL | UNIT | ES2A | ES2B | ES2C | ES2D | ES2E | ES2G | ES2J |
|---|------------------------|-------|-----------|------|------|------|------|------|------|
| Maximum repetitive peak reverse voltage | V_{RRM} | V | 50 | 100 | 150 | 200 | 300 | 400 | 600 |
| Maximum RMS Voltage | V_{RMS} | V | 35 | 70 | 105 | 140 | 210 | 280 | 420 |
| Maximum DC blocking Voltage | V_{DC} | V | 50 | 100 | 150 | 200 | 300 | 400 | 600 |
| Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load, TL (Fig.1) | $I_{F(AV)}$ | A | 2.0 | | | | | | |
| Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave | I_{FSM} | A | 50 | | | | | | |
| Storage temperature | T_{stg} | °C | -55 ~+150 | | | | | | |
| Junction temperature | T_j | °C | -55 ~+150 | | | | | | |
| Typical Thermal Resistance | $R_{\theta J-A}^{(1)}$ | °C /W | 80 | | | | | | |
| | $R_{\theta J-L}^{(1)}$ | °C /W | 20 | | | | | | |

Note : (1)Thermal resistance from junction to ambient and from junction tolead mounted on P.C.B.with 0.2" × 0.2"(5.0mm x5.0 mm) copper pad areas

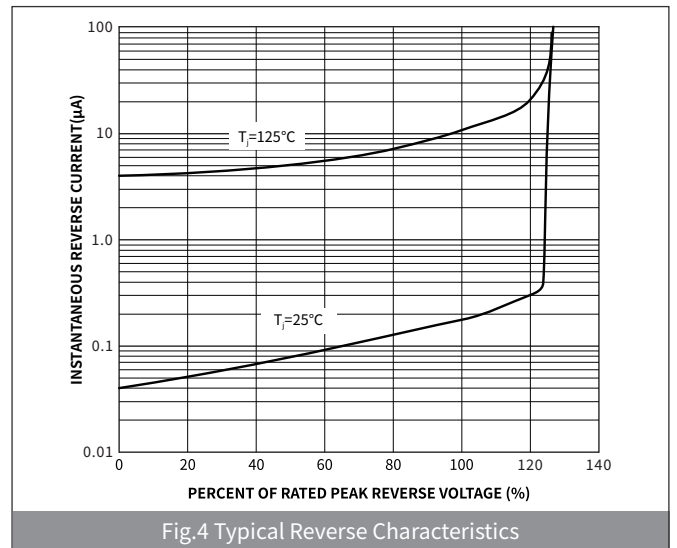
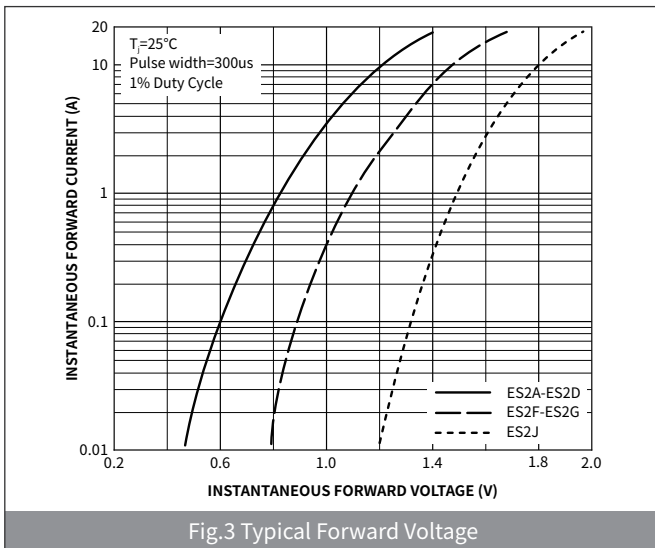
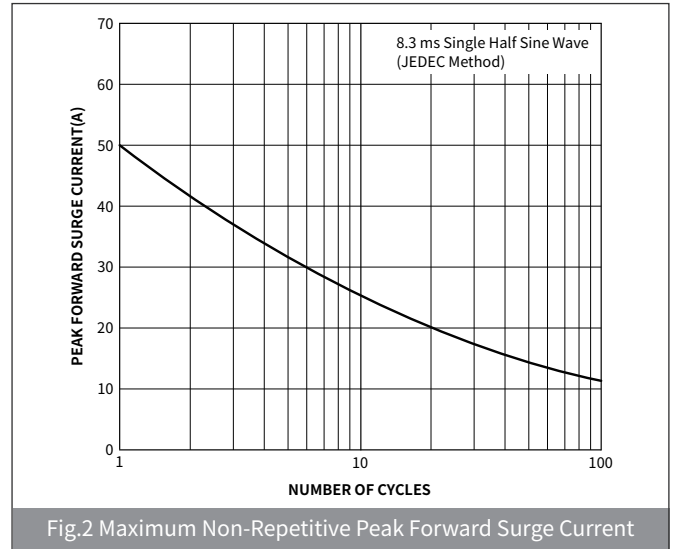
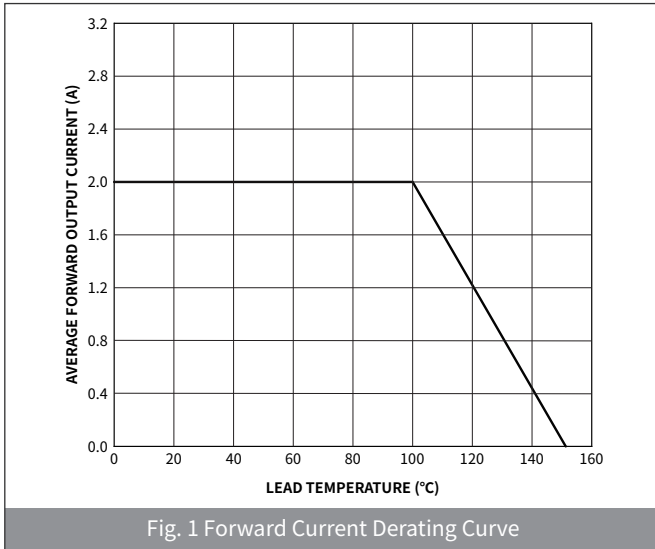
► Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER | TEST CONDITIONS | SYMBOL | UNIT | ES2A | ES2B | ES2C | ES2D | ES2E | ES2G | ES2J |
|---|------------------------------------|----------|---------|------|------|------|------|------|------|------|
| Maximum instantaneous forward voltage | $I_F=2.0A$ | V_F | V | 1.0 | | | | 1.3 | 1.7 | |
| Maximum reverse recovery time | $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$ | T_{rr} | ns | 35 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage | $V_{RM}=V_{RRM}$ | I_R | μA | | | | 2.0 | | | |
| | | | | | | | 200 | | | |
| Typical junction capacitance | 4.0V DC, 1MHz | C_J | pF | 55 | | | | | | |

DO-214AC(SMA)



► Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



▶ Ordering Information

| PACKAGE | PACKAGE CODE | UNIT WEIGHT(g) | REEL(pcs) | BOX(pcs) | CARTON(pcs) | DELIVERY MODE |
|---------|--------------|----------------|-----------|----------|-------------|---------------|
| SMA | R2 | 0.059 | 5000 | 10000 | 80000 | 11" |
| SMA | R3 | 0.059 | 7500 | 15000 | 120000 | 13" |

▶ Package Outline Dimensions (SMA/DO-214AC)

| Symbol | Dimensions | | | |
|--------|-------------|-------|--------|-------|
| | Millimeters | | Inches | |
| | Min. | Max. | Min. | Max. |
| A | 1.25 | 1.65 | 0.049 | 0.065 |
| B | 3.95 | 4.65 | 0.156 | 0.183 |
| C | 2.35 | 2.85 | 0.093 | 0.112 |
| D | 1.98 | 2.41 | 0.078 | 0.095 |
| E | 0.76 | 1.52 | 0.030 | 0.060 |
| F | - | 0.203 | - | 0.008 |
| G | 4.70 | 5.30 | 0.185 | 0.209 |
| H | 0.15 | 0.31 | 0.006 | 0.012 |

▶ Suggested Pad Layout

| Symbol | Dimensions | | | |
|--------|-------------|------|--------|-------|
| | Millimeters | | Inches | |
| | Min. | Max. | Min. | Max. |
| M | 1.70 | - | 0.067 | - |
| J | 2.10 | - | 0.082 | - |
| K | - | 2.30 | - | 0.090 |

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