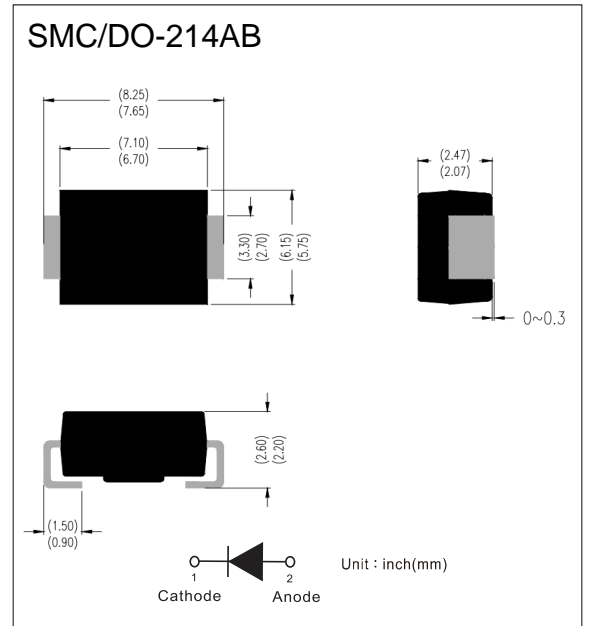


■ Features

- Glass passivated junction chip
- Ideal for automated placement
- Super fast recovery time for high efficiency
- Comply with RoHS standard, halogen-free

■ Mechanical Data

- package: SMC/DO-214AB
- Polarity: Indicated by cathode band
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position : Any



■ Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| PARAMETER | SYMBOL | ES3A | ES3B | ES3C | ES3D | ES3F | ES3G | ES3H | ES3J | UNIT |
|---|--------------|--------------|------|------|------|------|------|------|------|--------------------|
| Repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V |
| Reverse voltage, total rms value | $V_{R(RMS)}$ | 30 | 70 | 105 | 140 | 210 | 280 | 350 | 420 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V |
| Forward current | $I_{F(AV)}$ | 3 | | | | | | | | A |
| Surge peak forward current, 8.3 ms single half sine-wave superimposed on rated load per diode | I_{FSM} | 100 | | | | | | | | A |
| Junction temperature | T_J | - 55 to +150 | | | | | | | | $^{\circ}\text{C}$ |
| Storage temperature | T_{STG} | - 55 to +150 | | | | | | | | $^{\circ}\text{C}$ |

Thermal Performance($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| PARAMETER | SYMBOL | TYP | UNIT |
|--|-----------------|-----|----------------------|
| Junction-to-lead thermal resistance per diode | $R_{\theta JL}$ | 12 | $^{\circ}\text{C/W}$ |
| Junction-to-ambient thermal resistance per diode | $R_{\theta JA}$ | 47 | $^{\circ}\text{C/W}$ |

Electrical Specifications($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| PARAMETER | CONDITIONS | SYMBOL | TYP. | MAX. | UNIT |
|--|---|----------|------|------|---------------|
| Forward voltage per diode ⁽¹⁾ | $I_F = 3\text{A}, T_J = 25^{\circ}\text{C}$ | V_F | - | 0.95 | V |
| | | | - | 1.30 | V |
| | | | - | 1.70 | V |
| Reverse current @ rated V_R per diode ⁽²⁾ | $T_J = 25^{\circ}\text{C}$ | I_R | - | 10 | μA |
| | $T_J = 100^{\circ}\text{C}$ | | - | 500 | μA |
| Junction capacitance | 1 MHz, $V_R=4.0\text{V}$ | C_J | 45 | - | pF |
| | | | 30 | - | pF |
| Reverse recovery time | $I_F=0.5\text{A}, I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$ | t_{rr} | - | 35 | ns |

Notes:

1. Pulse test with $PW=0.3\text{ ms}$
2. Pulse test with $PW=30\text{ ms}$



■ Characteristics Curves($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

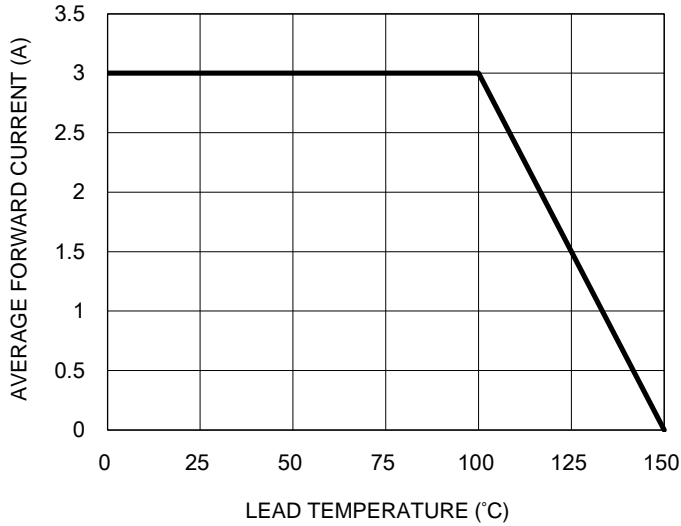


Fig.2 Typical Junction Capacitance

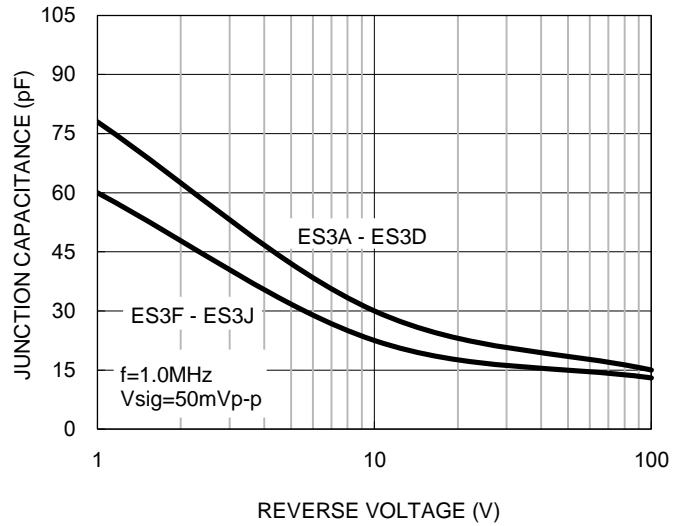


Fig.3 Typical Reverse Characteristics

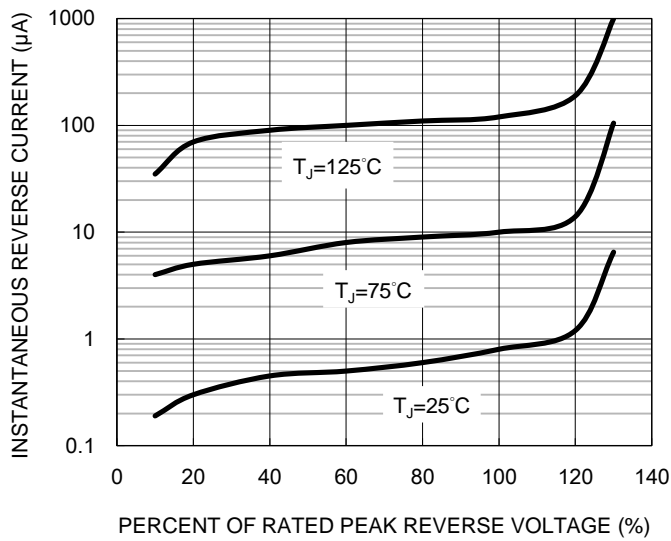


Fig.4 Typical Forward Characteristics

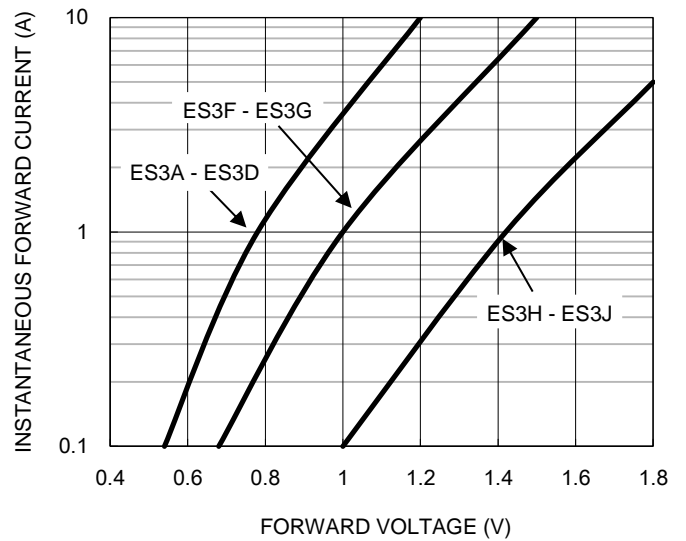


Fig.5 Maximum Non-repetitive Forward Surge Current

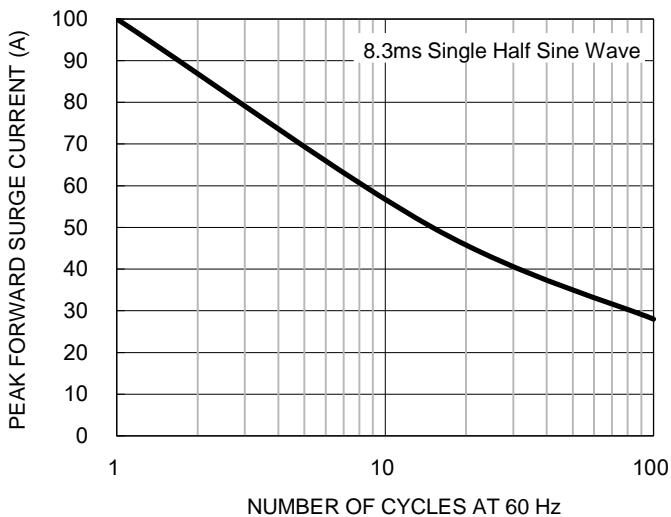
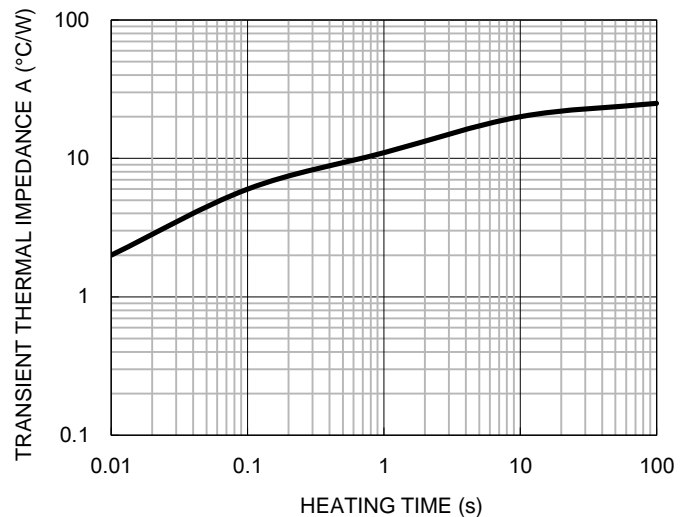


Fig.6 Typical Transient Thermal Characteristics



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