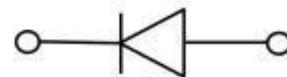


Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Ultra-fast reverse recovery time
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C

**Typical Application**

For use in high frequency rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

**Mechanical Data**

- Package: DO-214AB(SMC)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

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

| PARAMETER | Symbol | Unit | Conditions | HS5 | | | | | | | |
|-------------------------------------|--------------------|------|--|-----|-----|-----|-----|-----|-----|-----|------------|
| | | | | A | B | D | F | G | J | K | M |
| Repetitive Peak Reverse Voltage | V _{RRM} | V | | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 |
| Average Forward Current | I _{F(AV)} | A | 60HZ Half-sine wave, Resistance load, TL=110°C | | | | | | | | 5 |
| Surge(Nonrepetitive)Forward Current | I _{FSM} | A | 60HZ Half-sine wave, 1 cycle, Ta=25°C | | | | | | | | 150 |
| Storage Temperature | T _{stg} | °C | | | | | | | | | -55 ~ +150 |
| Junction Temperature | T _j | °C | | | | | | | | | -55 ~ +150 |

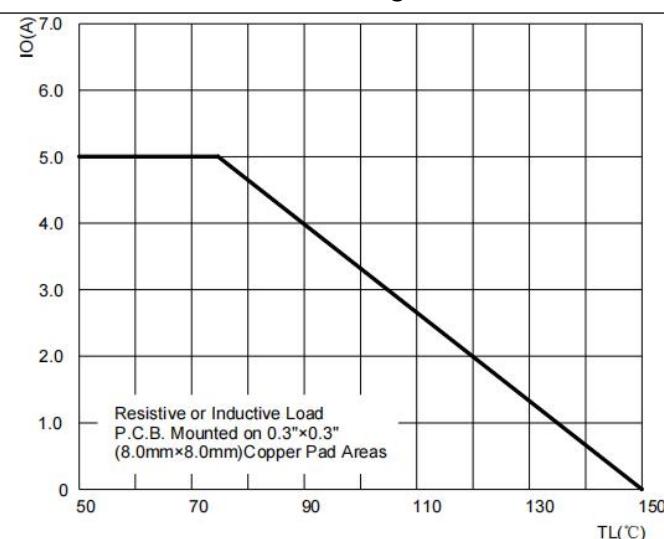
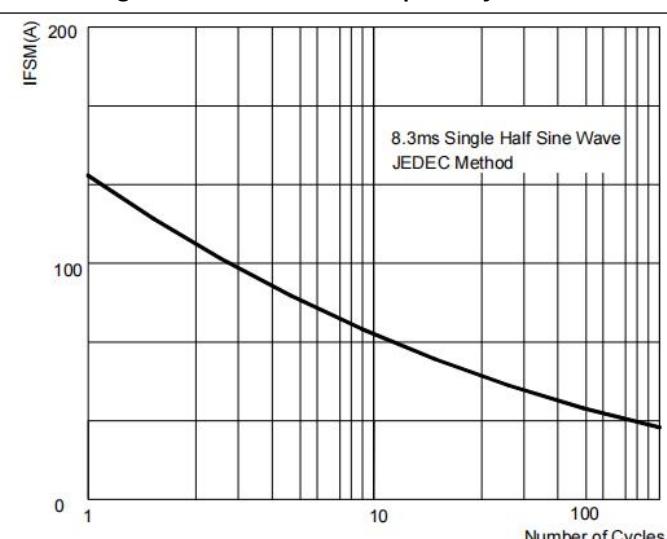
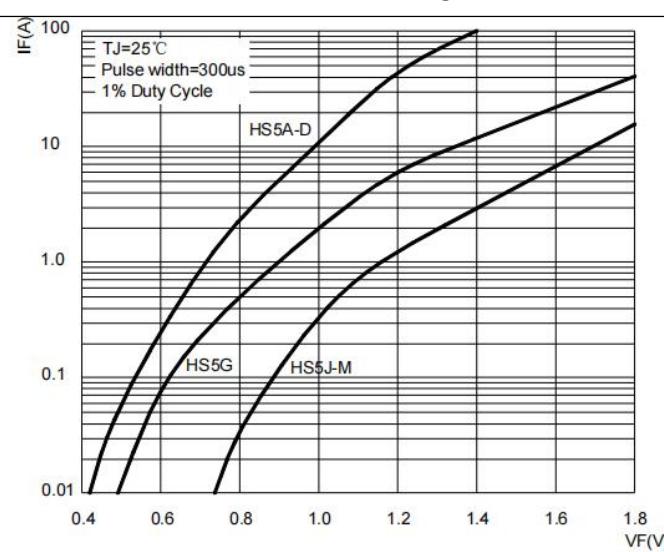
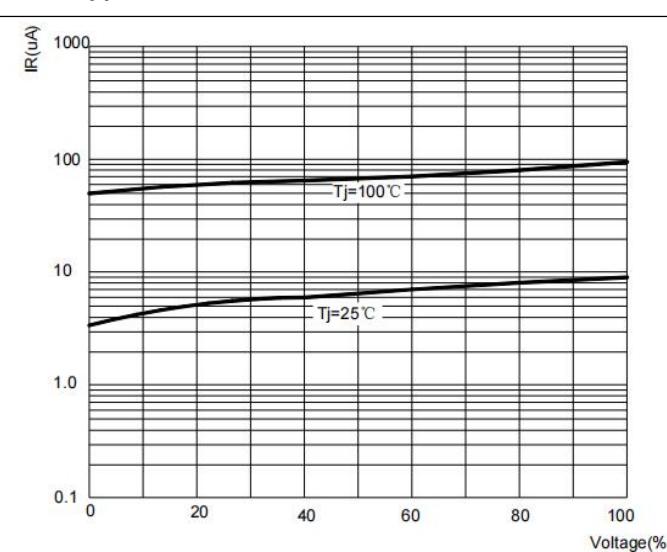
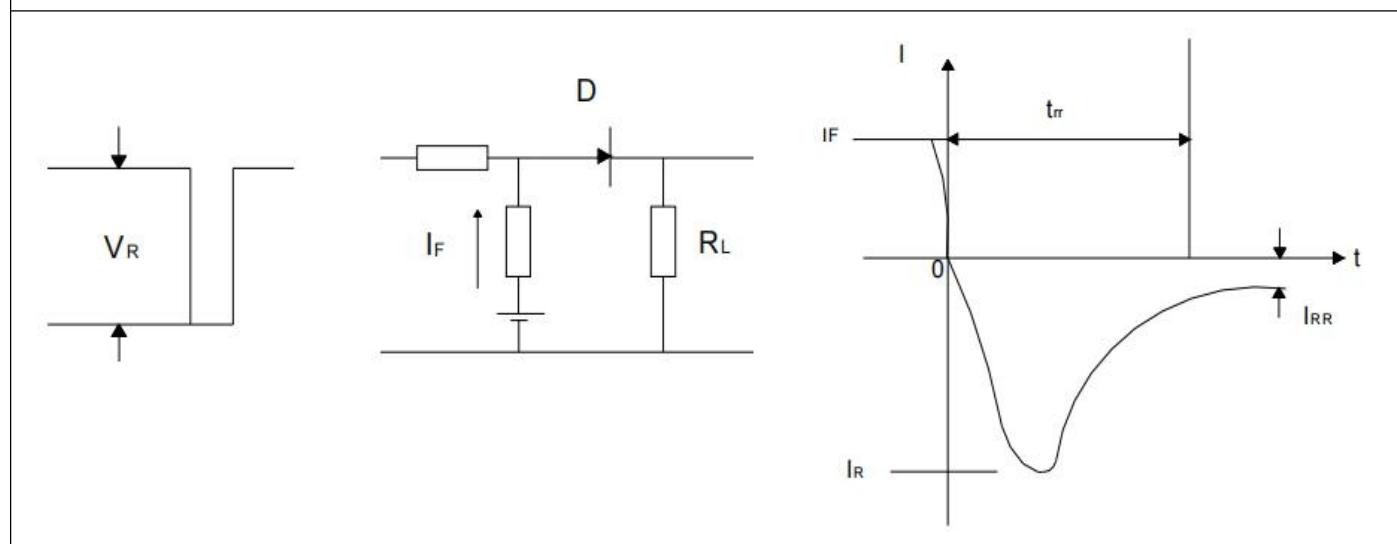
■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER | Symbol | Unit | Conditions | HS5 | | | | | | | |
|-------------------------------|-------------------|------|--|----------|---|---|-----|---|-----|---|------------------|
| | | | | A | B | D | F | G | J | K | M |
| Peak Forward Voltage | V _{FM} | V | I _{FM} = 5.0A | | | | 1.0 | | 1.3 | | 1.7 |
| Peak Reverse Current | I _{RRM1} | μA | V _{RM} =V _{RRM} | Ta=25°C | | | | | | | 10 |
| | I _{RRM2} | | | Ta=100°C | | | | | | | 250 |
| Maximum reverse recovery time | T _{rr} | ns | I _F =0.5A, I _R =1.0A, I _{rr} =0.25A | | | | 50 | | | | 75 |
| Thermal Resistance(Typical) | R _{θJ-A} | °C/W | Between junction and ambient | | | | | | | | 47 ¹⁾ |
| | R _{θJ-L} | | Between junction and terminal | | | | | | | | 13 ¹⁾ |

Notes:

1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

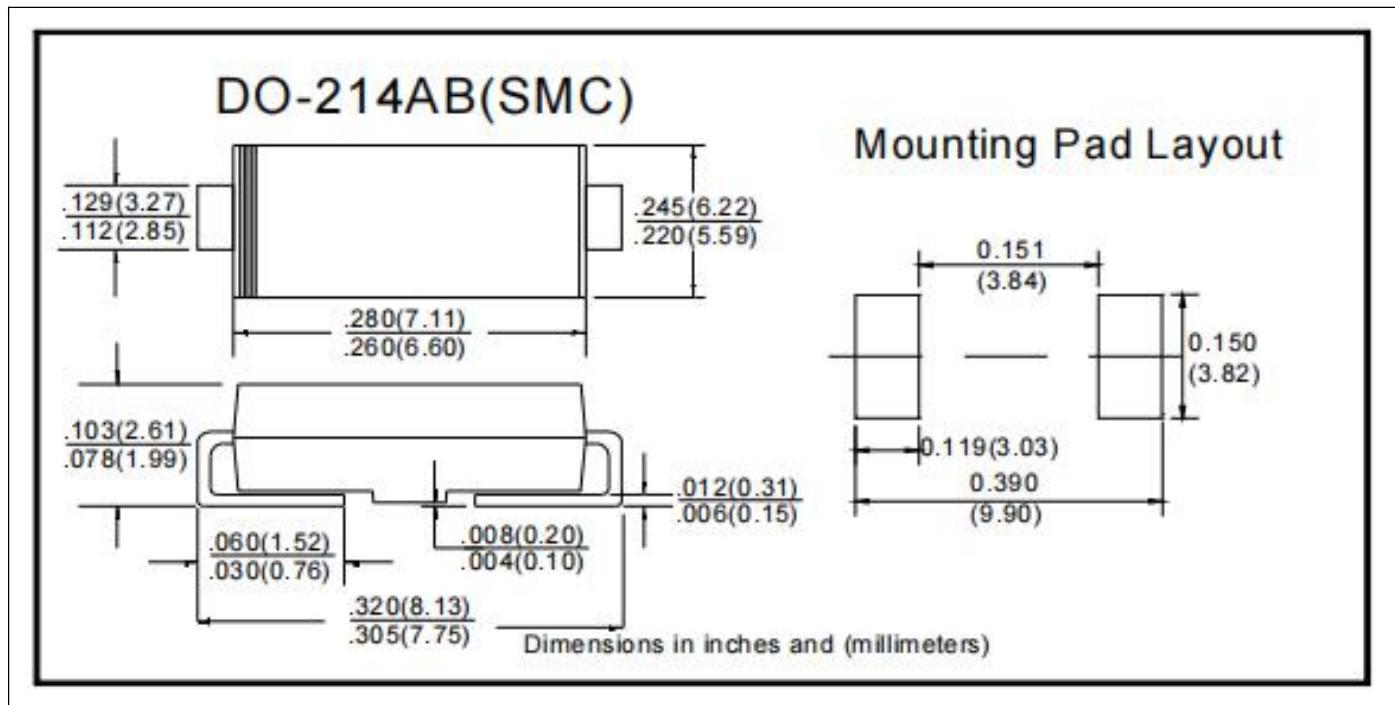


■ Characteristics (Typical)
FIG1: Forward Current Derating Curve

FIG2: Surge Forward Current Capability

FIG3: Instantaneous Forward Voltage

FIG4: Typical Reverse Characteristics

FIG5: Diagram of circuit and Testing wave form of reverse recovery time


■ Ordering Information (Example)

| PREFERRED | PACKAGE CODE | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|----------------|---------------|----------------------|-------------------------|----------------------------|---------------|
| HS5A THRU HS5M | DO-214AB(SMC) | 3000 | 6000 | 42000 | 13" reel |

■ Outline Dimensions



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