

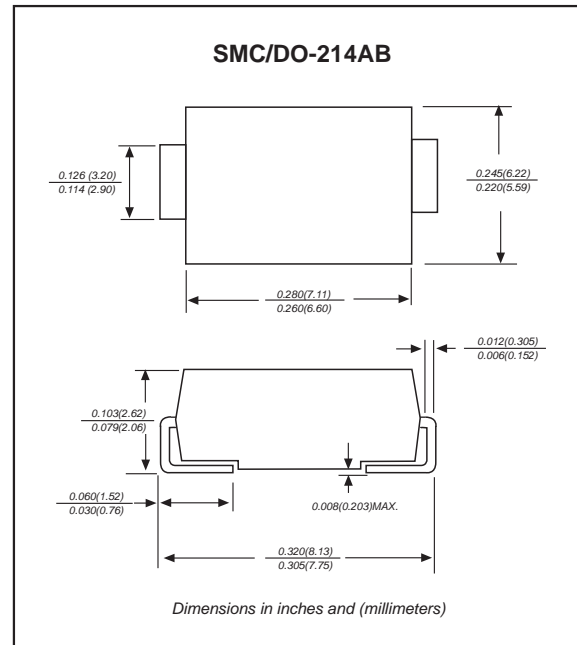
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Super fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Glass passivated chip junction
- Compliant to RoHS Directive 2011/65/EU
Suffix "-H" indicates Halogen-free part, ex.ES5J-C-H

Mechanical data

- **Case:** JEDEC DO-214AB molded plastic body
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any
- **Weight:**0.007 ounce, 0.25 grams

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

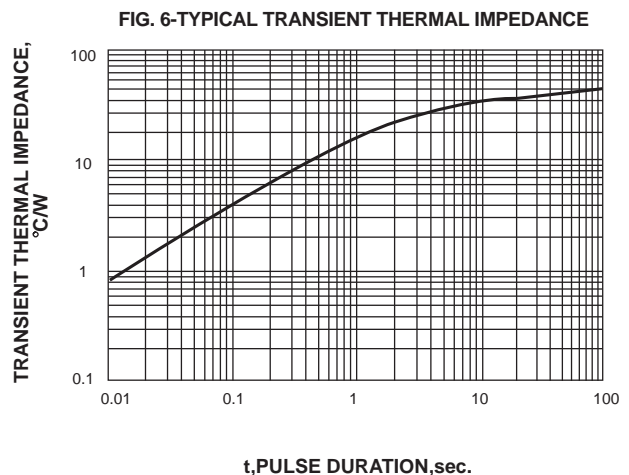
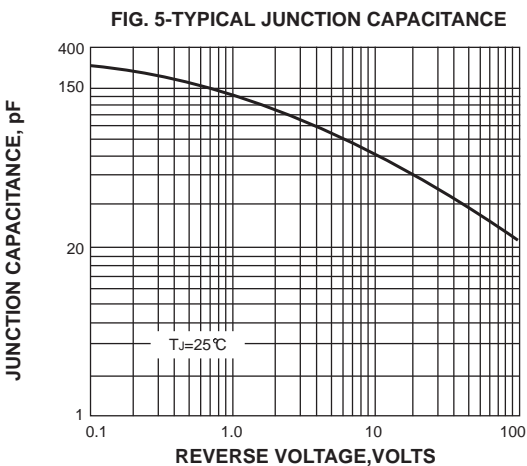
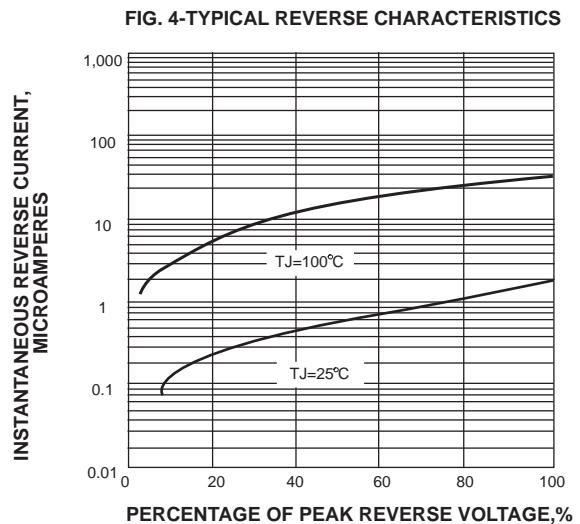
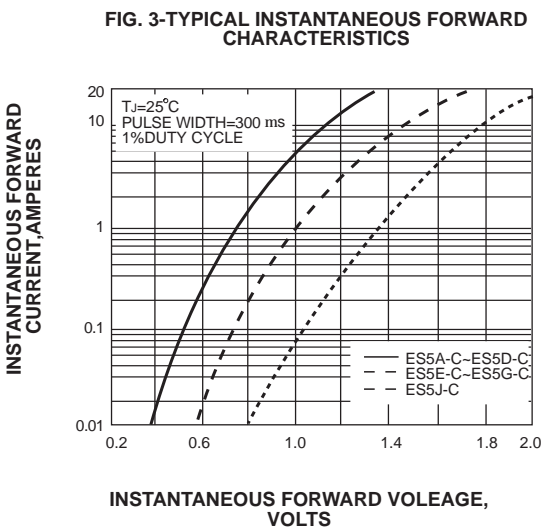
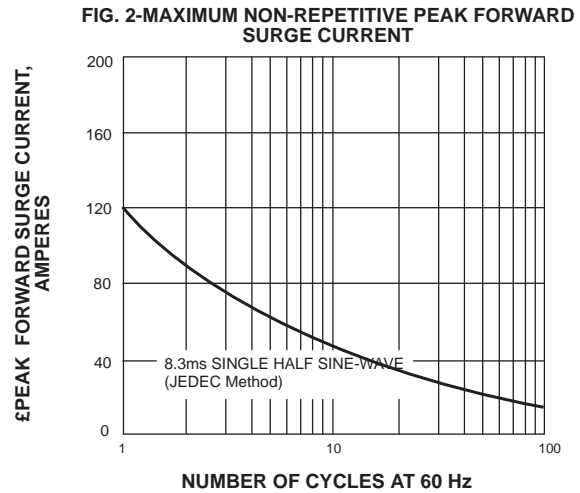
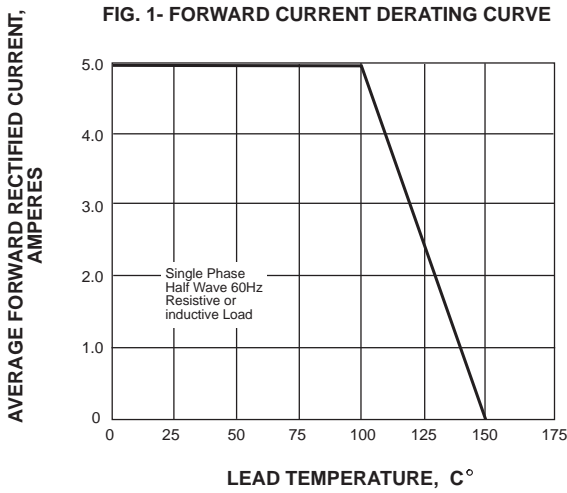
| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|--|------------------|------|------|------|------|
| Forward rectified current | See Fig.2 | I _O | | | 5.0 | A |
| Forward surge current | 8.3ms single half sine-wave (JEDEC methode) | I _{FSM} | | | 120 | A |
| Reverse current | V _R = V _{RRM} T _A = 25°C | I _R | | | 5.0 | μA |
| | V _R = V _{RRM} T _A = 100°C | | | | 50 | |
| Thermal resistance | Junction to ambient NOTE 1 | R _{θJA} | | 40 | | °C/W |
| Diode junction capacitance | f=1MHz and applied 4V DC reverse voltage | C _J | | 180 | | pF |
| Storage temperature | | T _{STG} | -65 | | +150 | °C |

| SYMBOLS | V _{RRM} ^{*1} (V) | V _{RMS} ^{*2} (V) | V _R ^{*3} (V) | V _F ^{*4} (V) | t _{rr} ^{*5} (ns) | Operating temperature T _J (°C) |
|---------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|--|
| ES5A-C | 50 | 35 | 50 | 1.00 | 35 | -55 to +150 |
| ES5B-C | 100 | 70 | 100 | | | |
| ES5C-C | 150 | 105 | 150 | | | |
| ES5D-C | 200 | 140 | 200 | | | |
| ES5E-C | 300 | 210 | 300 | 1.30 | | |
| ES5G-C | 400 | 280 | 400 | 1.70 | | |
| ES5J-C | 600 | 420 | 600 | | | |



- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@I_F=5.0A
- *5 Maximum Reverse recovery time, note 2

Note: 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas
2. Reverse recovery time test condition, I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Rating and characteristic curves



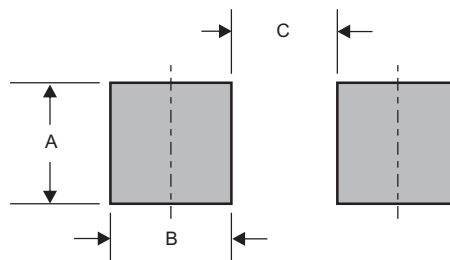
Pinning information

| Pin | Simplified outline | Symbol |
|----------------------------|--|---|
| Pin1 cathode Pin2 anode |  |  |

Marking

| Type number | Marking code |
|-------------|--------------|
| ES5A-C | ES5A |
| ES5B-C | ES5B |
| ES5C-C | ES5C |
| ES5D-C | ES5D |
| ES5E-C | ES5E |
| ES5G-C | ES5G |
| ES5J-C | ES5J |

Suggested solder pad layout



Dimensions in inches and (millimeters)

| PACKAGE | A | B | C |
|---------|--------------|--------------|-------------|
| SMC | 0.132 (3.30) | 0.100 (2.50) | 0.176(4.40) |

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