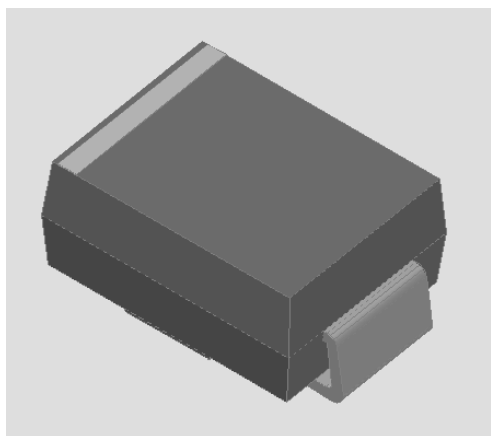


### Typical Applications

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

### Mechanical Data

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

### ■Maximum Ratings ( $T_a=25$ Unless otherwise specified)

| PARAMETER                               | SYMBOL    | UNIT | ES2A        | ES2B | ES2C | ES2D | ES2F | ES2G | ES2H | ES2J | ES2K |
|-----------------------------------------|-----------|------|-------------|------|------|------|------|------|------|------|------|
| Device marking code                     |           |      | ES2A        | ES2B | ES2C | ES2D | ES2F | ES2G | ES2H | ES2J | ES2K |
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | V    | 50          | 100  | 150  | 200  | 300  | 400  | 500  | 600  | 800  |
| Maximum RMS Voltage                     | $V_{RMS}$ | V    | 35          | 70   | 105  | 140  | 210  | 280  | 350  | 420  | 560  |
| Maximum DC blocking Voltage             | $V_{DC}$  | V    | 50          | 100  | 150  | 200  | 300  | 400  | 500  | 600  | 800  |
| Average rect                            | $\Phi$    | M    | Tstg rature |      |      |      |      |      |      |      |      |
|                                         |           |      | -55 ~ +150  |      |      |      |      |      |      |      |      |

|                      |       |  |            |
|----------------------|-------|--|------------|
|                      |       |  |            |
| Junction temperature | $T_j$ |  | -55 ~ +150 |

### ■Electrical Characteristics $T_a=25$ Unless otherwise specified

| PARAMETER                                               | SYMBOL          | UNIT | TEST CONDITIONS                                                    | ES2A | ES2B | ES2C | ES2D | ES2F | ES2G | ES2H | ES2J | ES2K |
|---------------------------------------------------------|-----------------|------|--------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
| Maximum instantaneous forward voltage                   | V <sub>F</sub>  | V    | I <sub>FM</sub> =2.0A                                              | 0.95 |      |      |      | 1.3  |      | 1.7  |      | 1.85 |
| Maximum reverse recovery time                           | t <sub>rr</sub> | ns   | I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A | 35   |      |      |      |      |      |      |      |      |
| Maximum DC reverse current at rated DC blocking voltage | I <sub>R</sub>  | μA   | T <sub>j</sub> =25                                                 | 5.0  |      |      |      |      |      |      |      |      |
|                                                         |                 |      | T <sub>j</sub> =125                                                | 100  |      |      |      |      |      |      |      |      |
| Typical junction capacitance                            | C <sub>j</sub>  | pF   | Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C          | 31   |      |      |      | 17   |      | 12   |      | 12   |



# ES2A THRU ES2K

■Thermal Characteristics     $T_a=25$     Unless otherwise specified

| PARAMETER | SYMBOL | UNIT | ES2A | ES2B | ES2C | ES2D | ES2F | ES2G | ES2H | ES2J |  |
|-----------|--------|------|------|------|------|------|------|------|------|------|--|
|-----------|--------|------|------|------|------|------|------|------|------|------|--|



■Ordering Information (Example)

| PREFERED P/N | PACKING<br>CODE | UNIT WEIGHT(g) | MINIMUM<br>PACKAGE(pcs) |
|--------------|-----------------|----------------|-------------------------|
|--------------|-----------------|----------------|-------------------------|



■ Suggested pad layout

| DO-214AA(SMB) |             |
|---------------|-------------|
| Dim           | Millimeters |



## ES2A THRU ES2K

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