



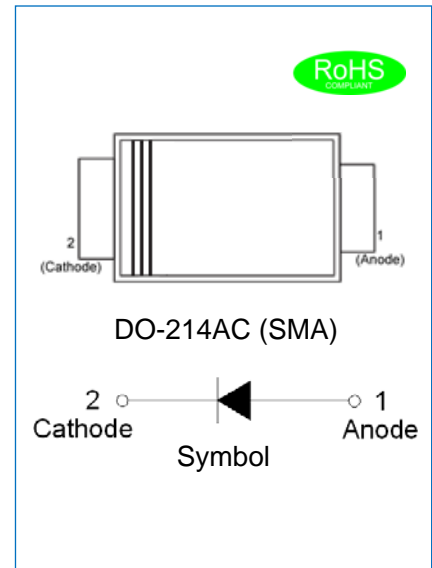
## JSPX360A

### 3A Schottky Barrier Rectifier

Rev.1.2

#### DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ For surface mounted applications in order to optimize board space
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive
- ✧ Ultra low forward voltage drop
- ✧ Low power losses, high efficiency operation
- ✧ High current capability and surge capability
- ✧ Low thermal resistance package



#### MECHANICAL DATA

- ✧ Case: SMA molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end

#### ABSOLUTE MAXIMUM RATING (Rating at 25°C ambient temperature unless otherwise specified.)

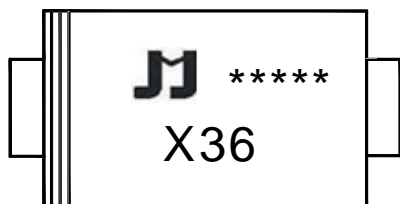
| Parameter  | Symbol      | JSPX360A    | Unit |
|--|-------------|-------------|------|
| Maximum repetitive peak reverse voltage  | $V_{RRM}$   | 60          | V    |
| Maximum RMS voltage  | $V_{RMS}$   | 42          | V    |
| Maximum DC blocking voltage  | $V_{DC}$    | 60          | V    |
| Maximum average forward current  | $I_{F(AV)}$ | 3.0         | A    |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | $I_{FSM}$   | 80          | A    |
| Operating junction temperature range   | $T_j$       | -55 to +150 | °C   |
| Storage temperature range  | $T_{stg}$   | -55 to +150 | °C   |

#### ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified.)

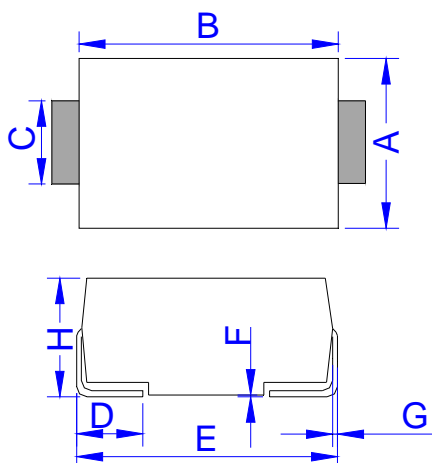
| Parameter                                    | Symbol                      | Min | Typ | Max | Unit |
|--|-----------------------------|-----|-----|-----|------|
| Forward voltage                              | $I_F=3A$<br>$V_F$           |     |     | 0.7 | V    |
| Reverse current at rated DC blocking voltage | $T_A=25^\circ C$<br>$I_R$   |     |     | 0.1 | mA   |
|  | $T_A=100^\circ C$           |     |     | 10  |      |
| Junction capacitance                         | $V_R=4.0V, f=1MHz$<br>$C_J$ |     | 210 |     | pF   |

**THERMAL RESISTANCES**

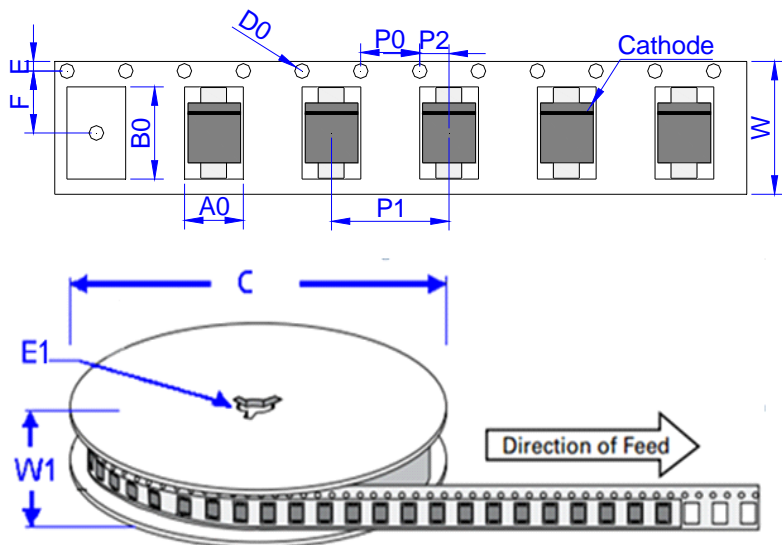
| Symbol        | Parameter                                    | JSPX360A | Unit                 |
|---------------|--|----------|----------------------|
| $R_{th(j-a)}$ | Thermal resistances from junction to ambient | 70       | $^{\circ}\text{C/W}$ |

**MARKING**


|                |                |
|----------------|----------------|
| The first ‘*’  | Date code      |
| The second ‘*’ |                |
| The third ‘*’  | Batch code     |
| The fourth ‘*’ |                |
| The fifth ‘*’  |                |
| X              | Package: SMA   |
| 3              | $I_{F(AV)}:3A$ |
| 6              | $V_{RRM}:60V$  |

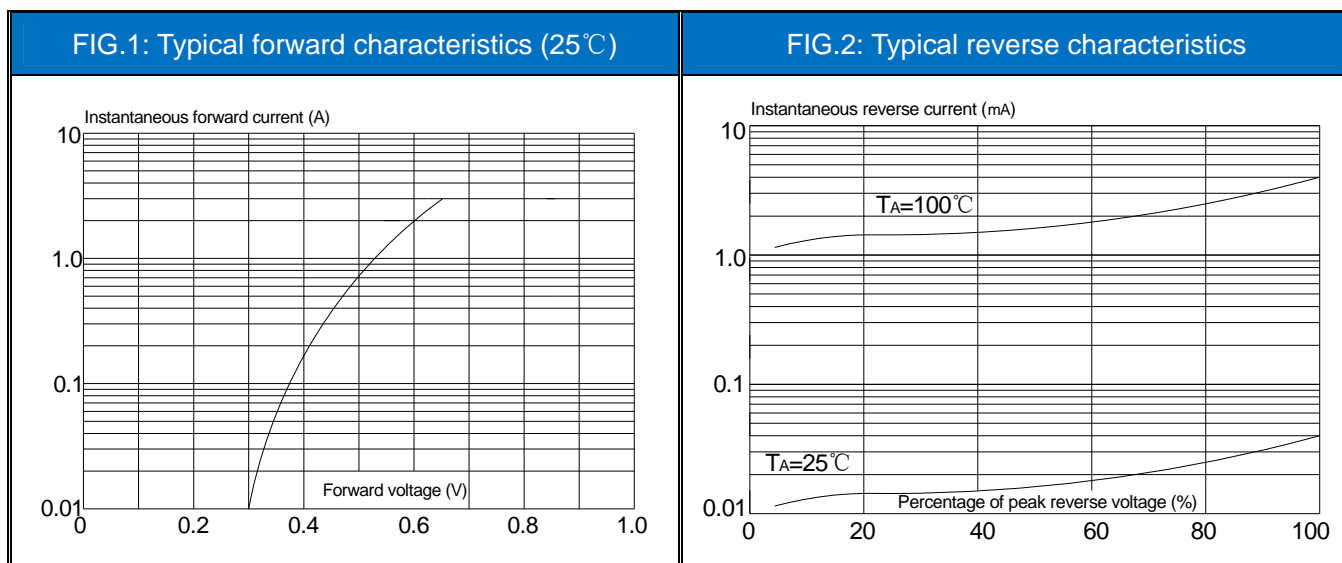
**PACKAGE MECHANICAL DATA**

**DO-214AC (SMA)**

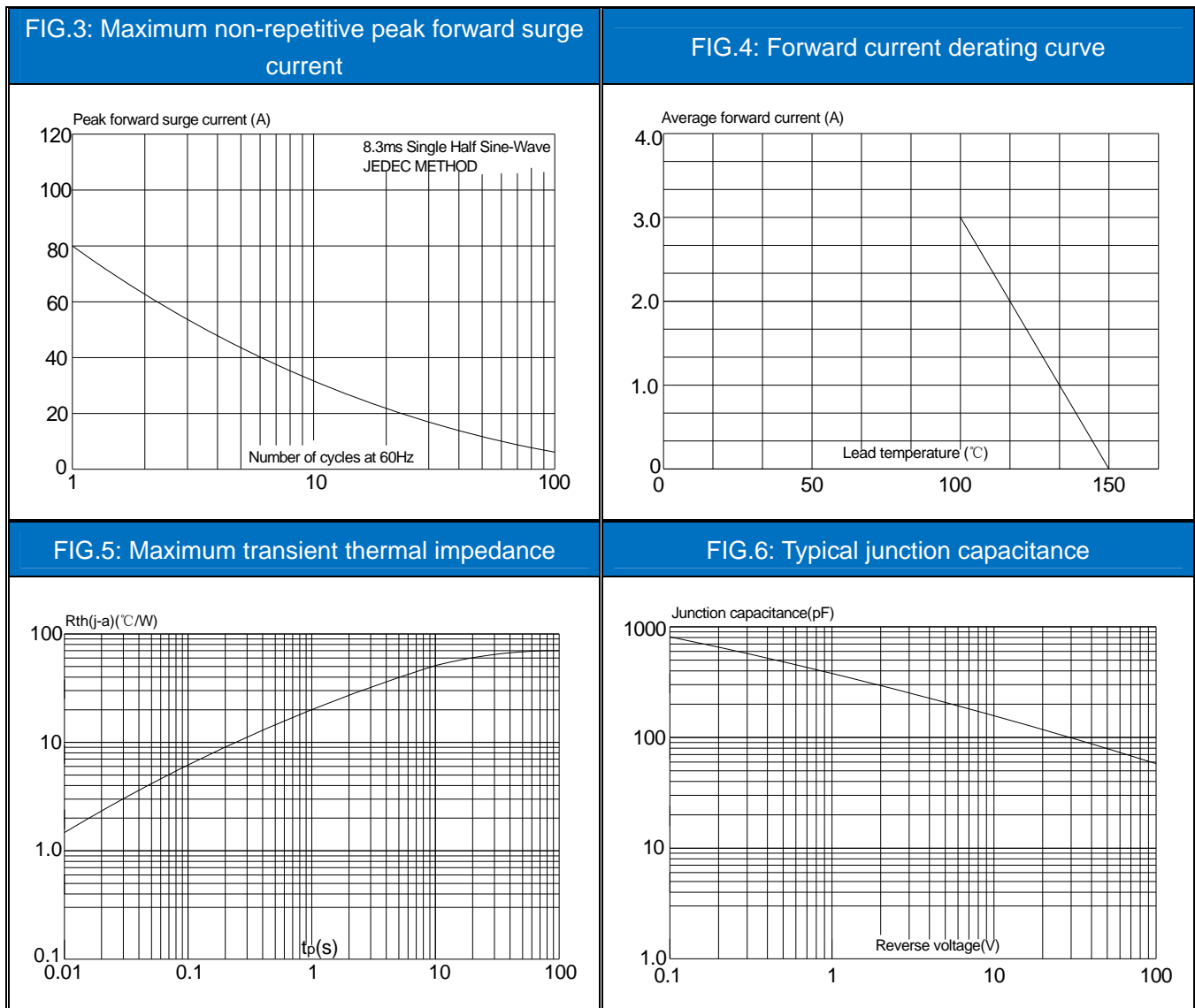
| Ref. | Dimensions  |       |        |       |
|------|-------------|-------|--------|-------|
|      | Millimeters |       | Inches |       |
|      | Min.        | Max.  | Min.   | Max.  |
| A    | 2.60        | 3.00  | 0.102  | 0.118 |
| B    | 4.15        | 4.65  | 0.163  | 0.183 |
| C    | 1.25        | 1.65  | 0.049  | 0.065 |
| D    | 0.95        | 1.52  | 0.037  | 0.060 |
| E    | 4.90        | 5.30  | 0.193  | 0.209 |
| F    | 0.051       | 0.203 | 0.002  | 0.008 |
| G    | 0.15        | 0.31  | 0.006  | 0.012 |
| H    | 2.00        | 2.44  | 0.079  | 0.096 |
| J    | 2.00        |       | 0.079  |       |
| K    |             | 2.30  |        | 0.091 |
| L    | 1.80        |       | 0.071  |       |

**TAPE AND REEL SPECIFICATION-SMA**


| Ref. | Dimensions  |               |
|------|-------------|---------------|
|      | Millimeters | Inches        |
| A0   | 2.79 ± 0.3  | 0.110 ± 0.012 |
| B0   | 5.33 ± 0.3  | 0.210 ± 0.012 |
| C    | 330.0       | 13.0          |
| D0   | 1.55 ± 0.1  | 0.061 ± 0.004 |
| E    | 1.75 ± 0.2  | 0.069 ± 0.008 |
| E1   | 13.3 ± 0.3  | 0.524 ± 0.012 |
| F    | 5.5 ± 0.2   | 0.217 ± 0.008 |
| P0   | 4.00 ± 0.2  | 0.157 ± 0.008 |
| P1   | 4.00 ± 0.2  | 0.157 ± 0.008 |
| P2   | 2.00 ± 0.2  | 0.079 ± 0.008 |
| W    | 12.0 ± 0.2  | 0.472 ± 0.008 |
| W1   | 15.7 ± 2.0  | 0.618 ± 0.079 |

| OUTLINE | UNIT WEIGHT (g/PCS) typ. | REEL (PCS) | PER CARTON (PCS) | REEL DIAMETERS (mm) |
|---------|--------------------------|------------|------------------|---------------------|
| TAPING  | 0.0673                   | 7,500      | 120,000          | 330                 |

**CHARACTERISTICS CURVE**


**CHARACTERISTICS CURVE**


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