



## JSPC1060ACT-CO

### 10A Schottky Barrier Rectifier

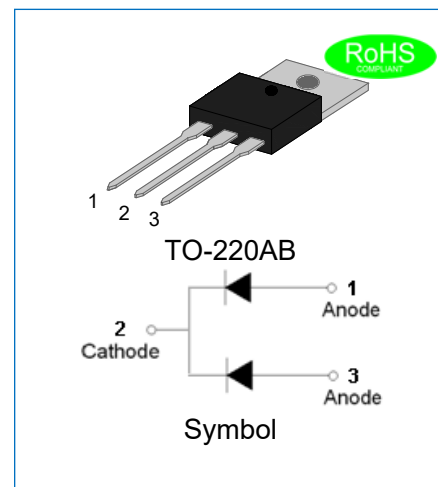
Rev.0.1

#### DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive
- ✧ Low forward voltage drop
- ✧ Low power losses, high efficiency operation
- ✧ High current capability and surge capability

#### MECHANICAL DATA

- ✧ Case: TO-220AB molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002



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

| Parameter                                                                          | Symbol      | JSPC1060ACT-CO | 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                                                    | $I_{F(AV)}$ | 10             | A    |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | $I_{FSM}$   | 100            | A    |
| Operating junction temperature range                                               | $T_j$       | -55 to +125    | °C   |
| Storage temperature range                                                          | $T_{stg}$   | -55 to +150    | °C   |

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

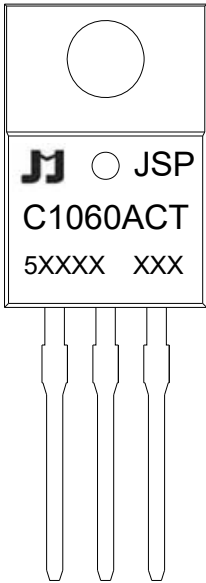
| Parameter            | Symbol                      | Min   | Typ | Max | Unit |
|----------------------|-----------------------------|-------|-----|-----|------|
| Forward voltage      | $I_F=5A$                    | $V_F$ |     | 0.8 | V    |
| Reverse current      | $V_R=60V, T_A=25^{\circ}C$  | $I_R$ |     | 0.1 | mA   |
|                      | $V_R=60V, T_A=100^{\circ}C$ |       |     | 40  |      |
| Junction capacitance | $V_R=4.0V, f=1MHz$          | $C_J$ | 500 |     | pF   |

#### THERMAL RESISTANCES

| Symbol        | Parameter                                | JSPC1060ACT-CO | Unit |
|---------------|------------------------------------------|----------------|------|
| $R_{th(j-c)}$ | Thermal resistance from junction to case | 2.5            | °C/W |



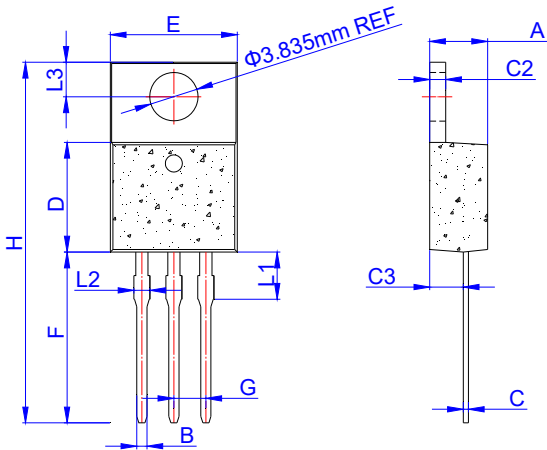
MARKING



|    |                            |
|----|----------------------------|
| JS | Schottky Barrier Rectifier |
| P  | Planar technology          |
| C  | Package: TO-220AB          |
| 10 | $I_{F(AV)}=10A$            |
| 60 | $V_{RRM}:60V$              |
| A  | Version                    |
| CT | Common cathode             |

|     |                             |
|-----|-----------------------------|
| 5   | Year code(4:2024,5:2025,……) |
| XX  | Week code                   |
| XX  | Chip code                   |
| XXX | Package lot number          |

PACKAGE MECHANICAL DATA



TO-220AB

| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| A    | 4.45        | 4.60  | 4.75  | 0.175  | 0.181 | 0.187 |
| B    | 0.71        | 0.81  | 0.91  | 0.028  | 0.032 | 0.036 |
| C    | 0.30        | 0.40  | 0.50  | 0.012  | 0.016 | 0.020 |
| C2   | 1.17        | 1.27  | 1.37  | 0.046  | 0.050 | 0.054 |
| C3   | 2.47        | 2.67  | 2.87  | 0.097  | 0.105 | 0.113 |
| D    | 8.50        | 8.70  | 8.90  | 0.335  | 0.343 | 0.350 |
| E    | 9.83        | 10.08 | 10.33 | 0.387  | 0.397 | 0.407 |
| F    | 13.30       | 13.55 | 13.80 | 0.524  | 0.533 | 0.543 |
| G    |             | 2.54  |       |        | 0.100 |       |
| H    | 28.10       | 28.60 | 29.10 | 1.106  | 1.126 | 1.146 |
| L1   | 3.54        | 3.74  | 3.94  | 0.139  | 0.147 | 0.155 |
| L2   | 1.17        | 1.27  | 1.37  | 0.046  | 0.050 | 0.054 |
| L3   |             | 2.74  |       |        | 0.108 |       |

PACKAGE INFORMATION-TO-220AB

|         |                             |               |                     |
|---------|-----------------------------|---------------|---------------------|
| OUTLINE | UNIT WEIGHT<br>(g/PCS) typ. | TUBE<br>(PCS) | PER CARTON<br>(PCS) |
| TUBE    | 1.93                        | 50            | 5,000               |



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