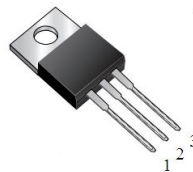


## PS40U60CT&PS40U60FCT

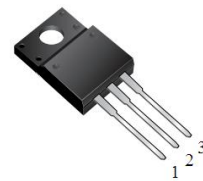
### 40.0AMPS. SCHOTTKY BARRIER RECTIFIERS

#### FEATURE

- . High current capability
- . Ultra low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed  
260°C /10seconds, 0.25"(6.35mm)from case.



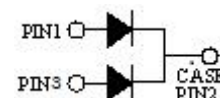
TO-220AB  
PS40U60CT



ITO-220AB  
PS40U60FCT

#### MECHANICAL DATA

- . Case: Molded with UL-94 Class V-0 recognized  
Flame Retardant Epoxy
- . Mounting position: any



Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

#### MAXIMUM RATINGS ( $T_C=25^\circ\text{C}$ unless otherwise noted)

| Parameter  | Symbol         | PS40U60CT&PS40U60FCT | Units            |
|--|----------------|----------------------|------------------|
| Maximum Recurrent 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 Rectified Current <i>Per Leg</i><br>at $T_C=100^\circ\text{C}$ <i>Total device</i>         | $I_{F(AV)}$    | 20.0<br>40.0         | A                |
| Peak Forward Surge Current 8.3ms single half sine-wave<br>superimposed on rated load (JEDEC method) <i>Per Leg</i> | $I_{FSM}$      | 200.0                | A                |
| Typical Junction Capacitance (Note 1)  | $C_J$          | 1800                 | pF               |
| Operation Junction Temperature and Storage Temperature   | $T_J, T_{STG}$ | -55 to +150          | $^\circ\text{C}$ |
| Maximum Mounting torque, M3 or 6-32 srew   |                | 1.1N*m (10 lbf*in)   |                  |

#### ELECTRICAL CHARACTERISTICS-(per leg) ( $T_A=25^\circ\text{C}$ unless otherwise noted)

| Parameter               | Symbol | Test conditions         | Typ              | Max  | Units |               |
|-------------------------|--------|-------------------------|------------------|------|-------|---------------|
| Forward voltage drop    | $V_F$  | $T_J=25^\circ\text{C}$  | $I_F=2\text{A}$  | 0.32 | ---   | V             |
|                         |        |                         | $I_F=5\text{A}$  | 0.38 | ---   |               |
|                         |        |                         | $I_F=20\text{A}$ | 0.55 | 0.65  |               |
|                         |        | $T_J=125^\circ\text{C}$ | $I_F=2\text{A}$  | 0.22 | ---   |               |
|                         |        |                         | $I_F=5\text{A}$  | 0.31 | ---   |               |
|                         |        |                         | $I_F=20\text{A}$ | 0.53 | 0.60  |               |
| Reverse leakage current | $I_R$  | $T_J=25^\circ\text{C}$  | $V_R=60\text{V}$ | ---  | 250   | $\mu\text{A}$ |
|                         |        | $T_J=125^\circ\text{C}$ | $V_R=60\text{V}$ | ---  | 50    | mA            |

#### THERMAL CHARACTERISTICS( $T_C=25^\circ\text{C}$ unless otherwise noted)

| Parameter                           | Symbol     | PS40U60CT | PS40U60FCT | Units                     |
|-------------------------------------|------------|-----------|------------|---------------------------|
| Typical Thermal Resistance (Note 2) | $R_{(JC)}$ | 2.0       | 3.0        | $^\circ\text{C}/\text{W}$ |

Notes:1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Case

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

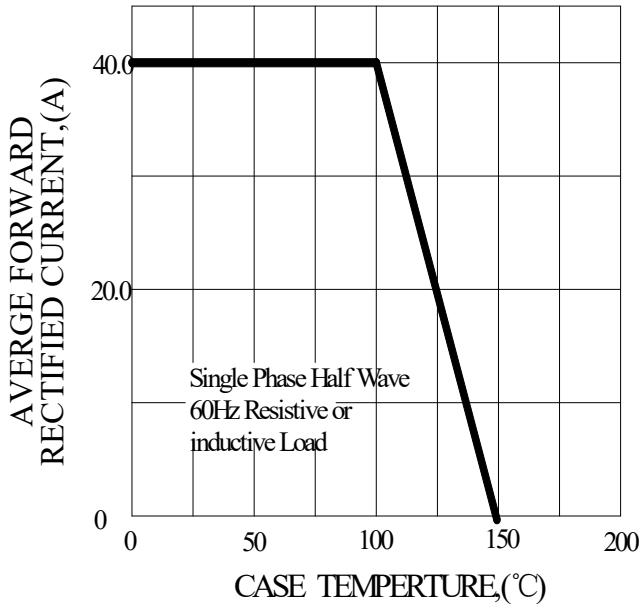


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

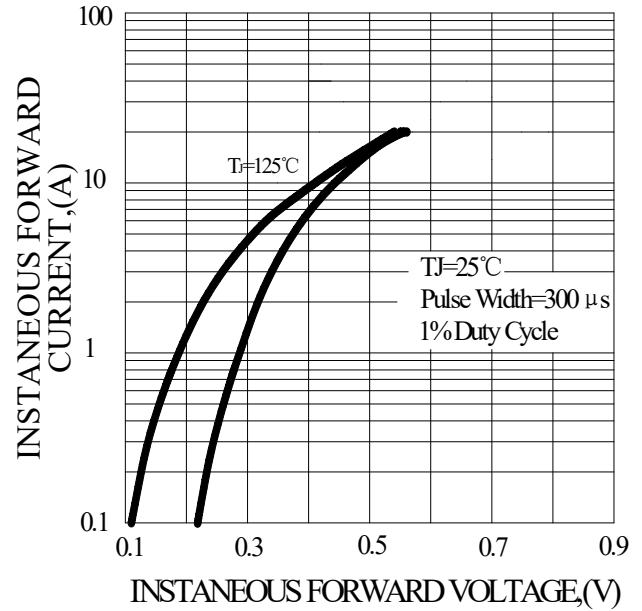


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

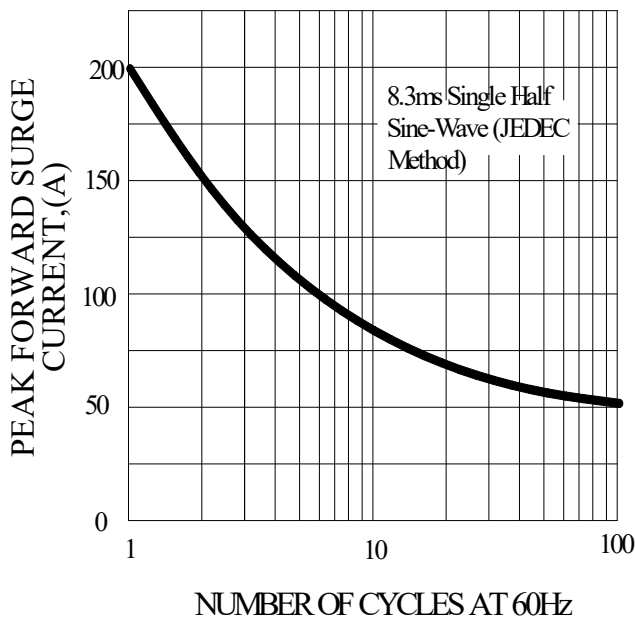
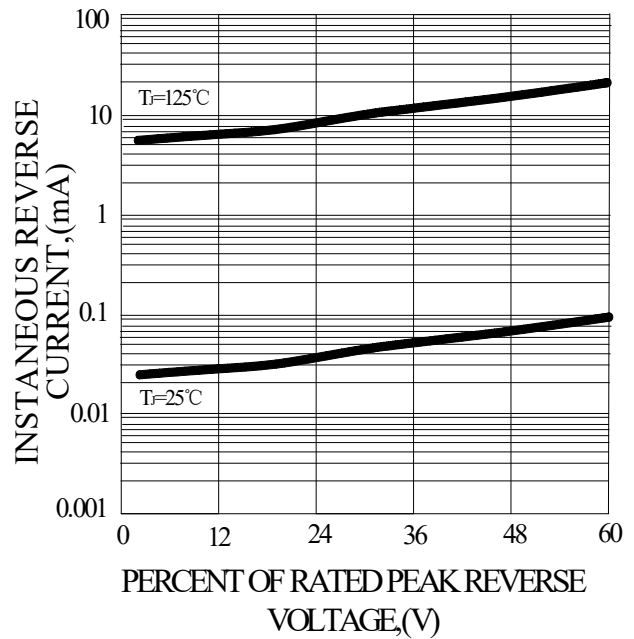
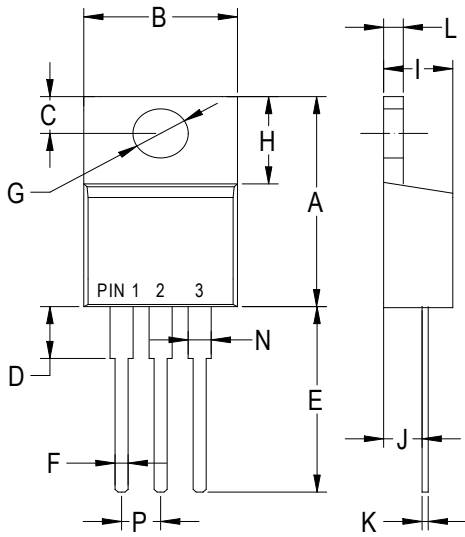


FIG.4-TYPICAL REVERSE CHARACTERISTICS



**PACKAGE OUTLINE DIMENSIONS**

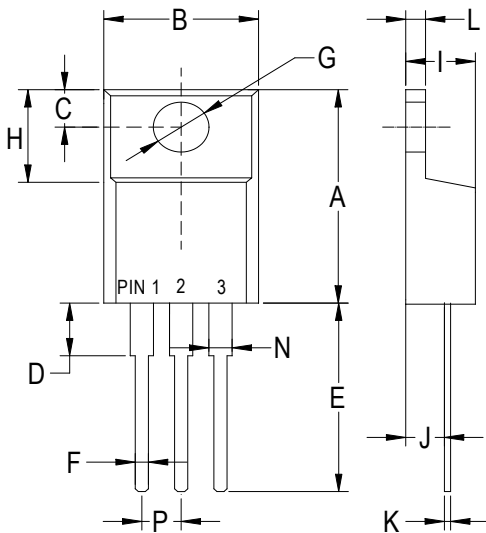
**TO-220AB**



| TO-220AB |              |              |
|----------|--------------|--------------|
| Dim      | Min          | Max          |
| A        | .573 (14.55) | .603 (15.32) |
| B        | —            | .412 (10.5)  |
| C        | .103 (2.62)  | .113 (2.87)  |
| D        | .140 (3.56)  | .160 (4.06)  |
| E        | .510 (13.0)  | .560 (14.3)  |
| F        | .027 (0.68)  | .037 (0.94)  |
| G        | .148 (3.74)  | .154 (3.91)  |
| H        | .230 (5.84)  | .270 (6.86)  |
| I        | .175 (4.44)  | .185 (4.86)  |
| J        | .100 (2.54)  | .110 (2.79)  |
| K        | .014 (0.35)  | .025 (0.64)  |
| L        | .045 (1.14)  | .055 (1.40)  |
| P        | .095 (2.41)  | .105 (2.67)  |
| N        | .043 (1.10)  | .055 (1.38)  |

Dimensions in inches and (millimeters)

**ITO-220AB**

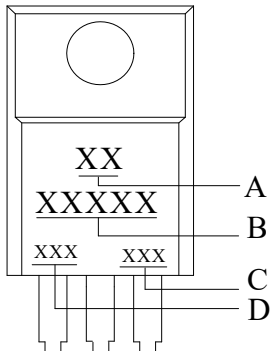


| ITO-220AB |             |             |
|-----------|-------------|-------------|
| Dim       | Min         | Max         |
| A         | .571 (14.5) | .610 (15.5) |
| B         | .383 (9.72) | .406 (10.3) |
| C         | .110 (2.80) | .126 (3.20) |
| D         | .133 (3.38) | .162 (4.10) |
| E         | .512 (13.0) | .551 (14.0) |
| F         | .028 (0.70) | .035 (0.90) |
| G         | .114 (2.90) | .138 (3.50) |
| H         | .268 (6.80) | .291 (7.40) |
| I         | .162 (4.10) | .185 (4.70) |
| J         | .102 (2.60) | .110 (2.80) |
| K         | .018 (0.45) | .026 (0.65) |
| L         | .097 (2.46) | .113 (2.86) |
| P         | .890 (2.25) | .113 (2.85) |
| N         | .043 (1.10) | .055 (1.38) |

Dimensions in inches and (millimeters)

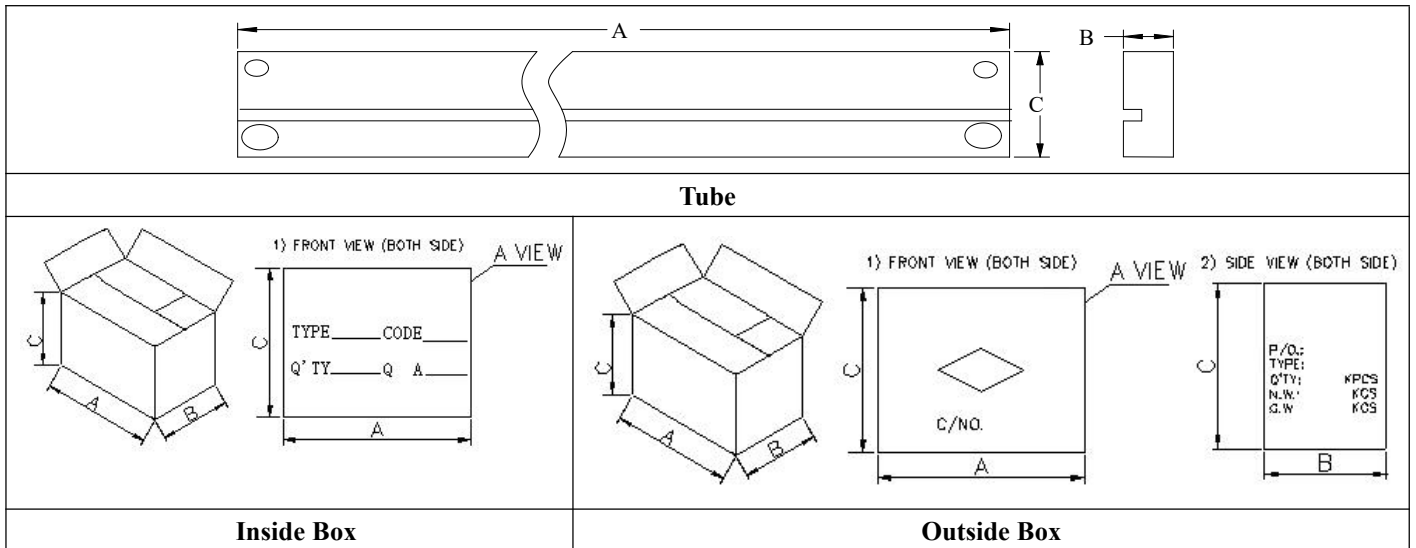
## Marking and packaging illustration

### 1、Marking



| SYMBOL   | Explanation         |
|----------|---------------------|
| <b>A</b> | Trademark           |
| <b>B</b> | Product Name        |
| <b>C</b> | Date Code           |
| <b>D</b> | Product Information |

### 2、Packaging



| 类别                                 | A (mm) | B (mm) | C (mm) |
|------------------------------------|--------|--------|--------|
| T0-220<br>Tube (50EA per tube )    | 530±5  | 7±0.8  | 33±1   |
| T0-220<br>Inside Box (1K per box)  | 542±5  | 82±2   | 78±1   |
| T0-220<br>outside Box (6K per box) | 555±5  | 285±5  | 245±5  |

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