

## SEMICONDUCTOR TECHNICAL DATA

## B30A45V

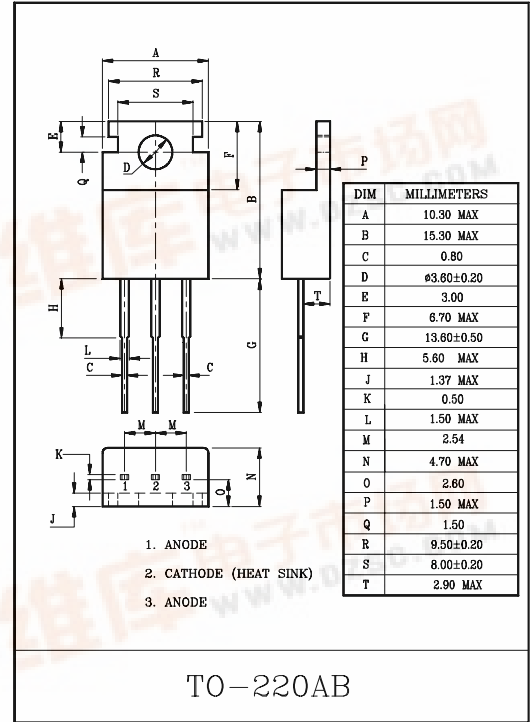
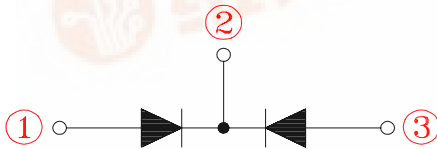
SCHOTTKY BARRIER TYPE DIODE STACK

SWITCHING TYPE POWER SUPPLY APPLICATION,  
CONVERTER & CHOPPER APPLICATION.

### FEATURES

- Average Output Rectified Current  
:  $I_O=30A$ (With Heat Sink).
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=45V$ .
- Fast Reverse Recovery Time :  $t_{rr}=35nS$ .
- Low Peak Forward Voltage :  $0.55V$ .(Typ.)

### POLARITY



### MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC  | SYMBOL    | RATING  | UNIT |
|---|-----------|---------|------|
| Repetitive Peak Reverse Voltage                                   | $V_{RRM}$ | 45      | V    |
| Average Output Rectified Current (Tc=105°C) (Rated $V_R$ ) (Note) | $I_O$     | 30      | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)        | $I_{FSM}$ | 350     | A    |
| Junction Temperature  | $T_j$     | -40~150 | °C   |
| Storage Temperature Range   | $T_{stg}$ | -55~150 | °C   |

Note : average forward current of centertap full wave connection.

### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                         | SYMBOL        | TEST CONDITION               | MIN. | TYP. | MAX. | UNIT |
|--|---------------|------------------------------|------|------|------|------|
| Peak Forward Voltage (Note)            | $V_{FM}$      | $I_{FM}=15A$                 | -    | -    | 0.60 | V    |
| Repetitive Peak Reverse Current (Note) | $I_{RRM}$     | $V_{RRM}=\text{Rated}$       | -    | -    | 3.0  | mA   |
| Reverse Recovery Time (Note)           | $t_{rr}$      | $I_F=1.0A, di/dt=-50A/\mu S$ | -    | -    | 35   | nS   |
| Thermal Resistance (Note)              | $R_{th(j-c)}$ | Juction to Case              | -    | -    | 1.5  | °C/W |

Note : A value of one cell

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