

SEMICONDUCTOR TECHNICAL DATA

B10A45VI SCHOTTKY BARRIER TYPE DIODE

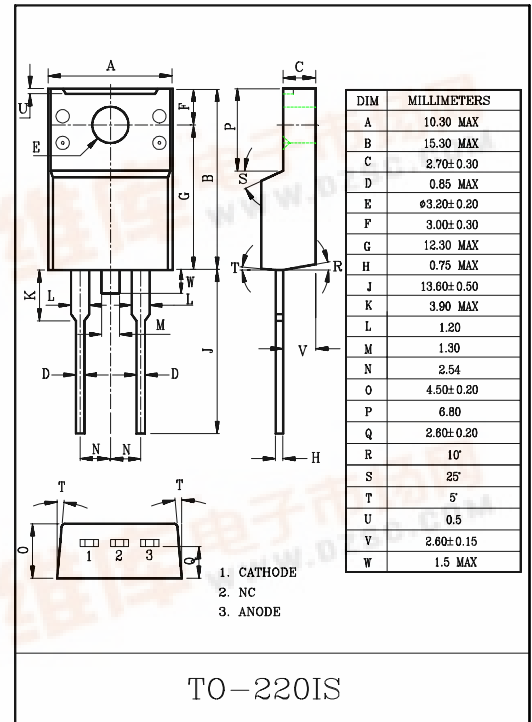
SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

FEATURES

- Average Output Rectified Current : $I_O=10A$ ($T_c=130^\circ C$).
- Repetitive Peak Reverse Voltage : $V_{RRM}=45V$.
- Fast Reverse Recovery Time : $t_{rr}=35nS$.
- Low Peak Forward Voltage : $0.55V$.(Typ.)

MAXIMUM RATINGS ($T_a=25^\circ C$)

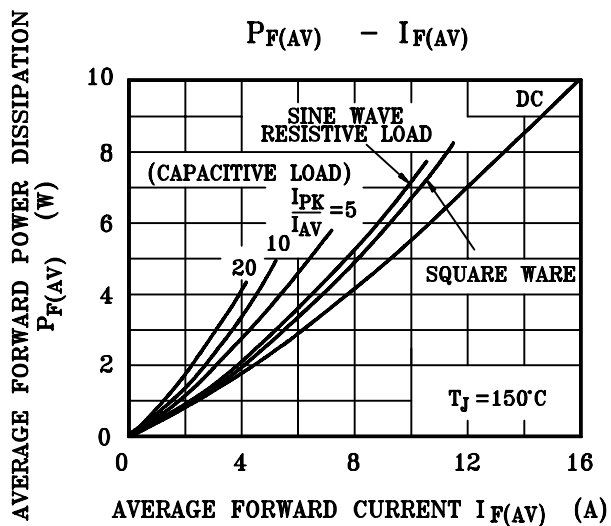
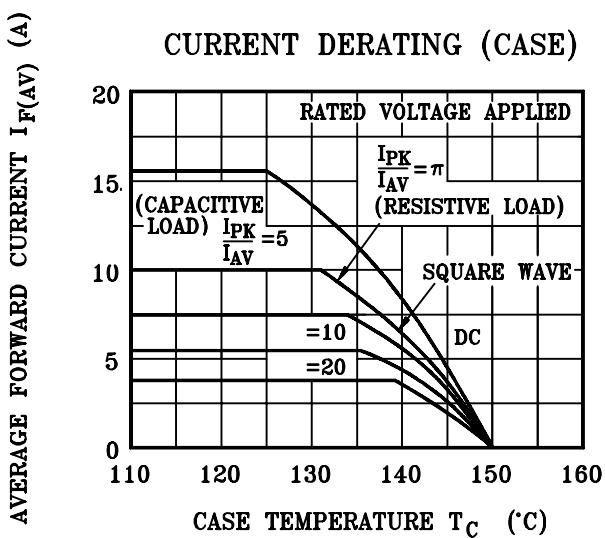
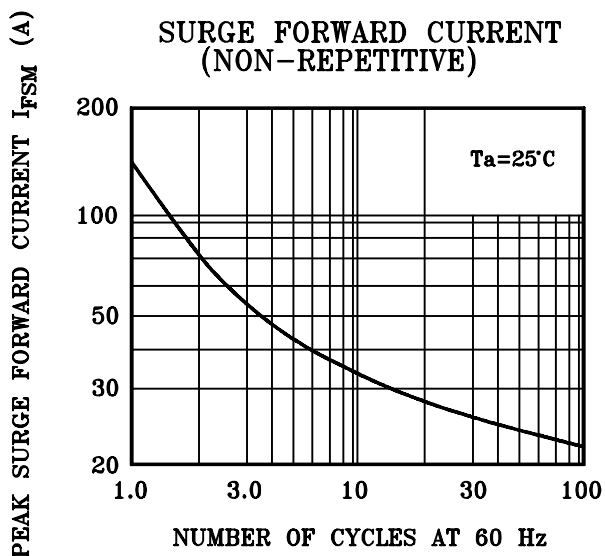
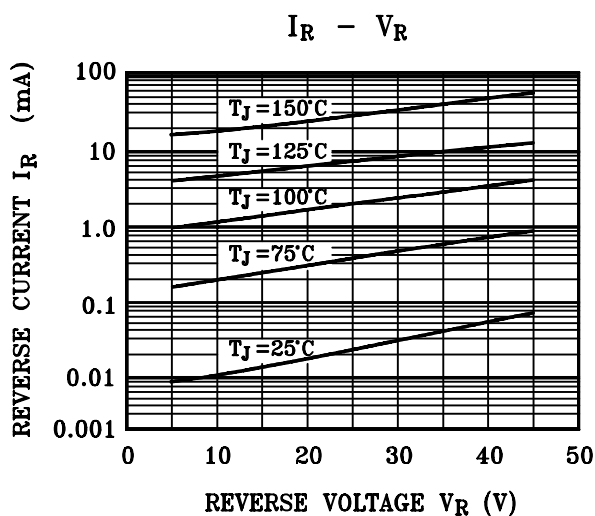
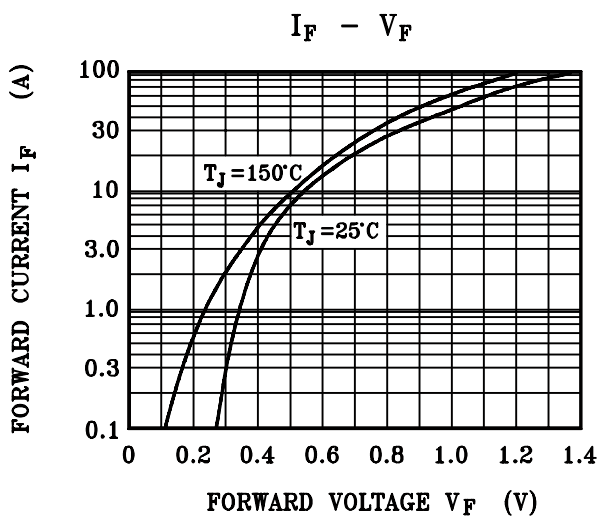
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|---------|------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 45 | V |
| Average Output Rectified Current ($T_c=130^\circ C$) | I_O | 10 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | I_{FSM} | 150 | A |
| Junction Temperature | T_j | -40~150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ C$ |



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|------------------------------|------|------|------|--------------|
| Peak Forward Voltage | V_{FM} | $I_{FM}=10A, T_c=25^\circ C$ | - | 0.55 | 0.58 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM}=\text{Rated}$ | - | - | 0.5 | mA |
| Reverse Recovery Time | t_{rr} | $I_F=1.0A, di/dt=-20A/\mu S$ | - | - | 35 | nS |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to Case | - | - | 3.0 | $^\circ C/W$ |

B10A45VI



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