

SMAB210

SCHOTTKY BARRIER TYPE DIODE

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

FEATURES

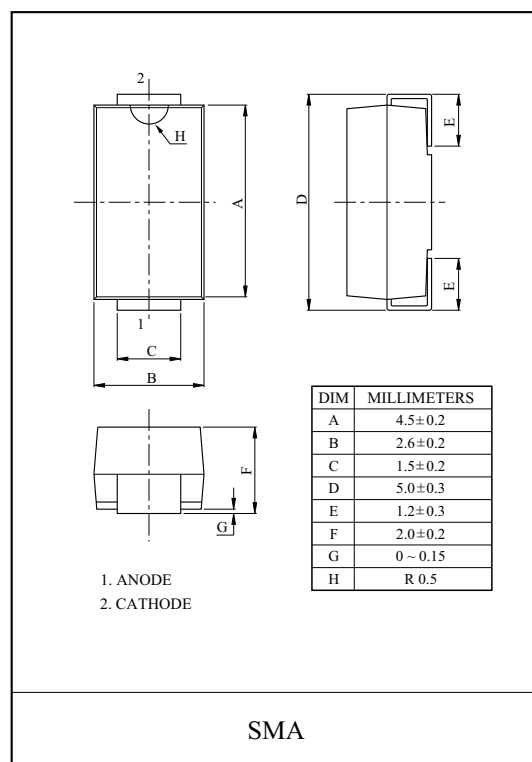
- Low Profile Surface Mount Package.
- Low Power Loss, High Efficiency.
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.

APPLICATION

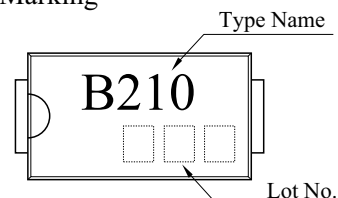
- Switching Power Supply.
- DC/DC Converter.
- Home Appliances, Office Equipment.
- Telecommunication.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 100 | V |
| Average Output Rectified Current | I_O | 2 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | I_{FSM} | 50 | A |
| Junction Temperature | T_j | -40 ~ 125 | °C |
| Storage Temperature Range | T_{stg} | -40 ~ 125 | °C |



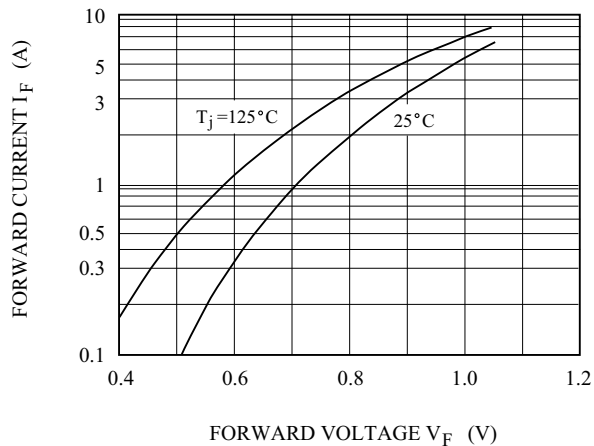
Marking



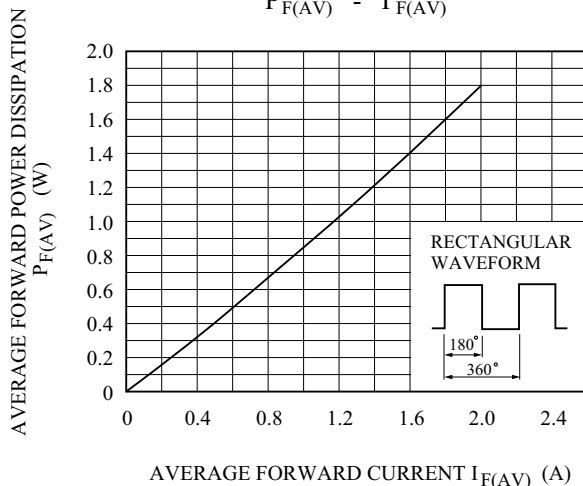
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|--|------|------|------|------|
| Peak Forward Voltage | V_{FM} | $I_{FM}=2.0A$ | - | - | 0.80 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM}=\text{Rated}$ | - | - | 1 | mA |
| Thermal Resistance | $R_{th(j-l)}$ | Junction to lead | - | - | 23 | °C/W |
| | $R_{th(j-a)}$ | Junction to ambient (on alumina substrate) | - | - | 108 | |

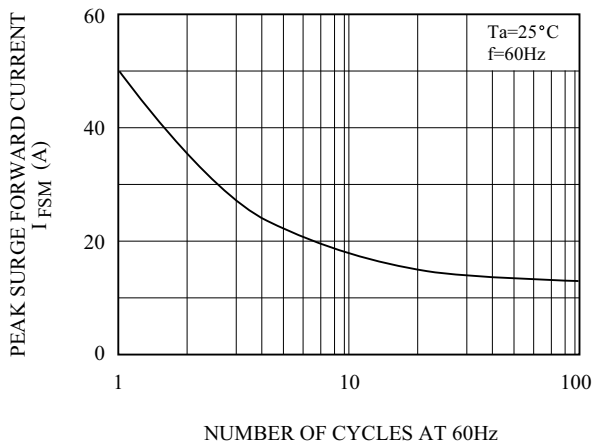
$I_F - V_F$



$P_{F(AV)} - I_{F(AV)}$



**SURGE FORWARD CURRENT
(NON - REPETITIVE)**



$I_{F(AV)} - T_l$

