

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

### FEATURES

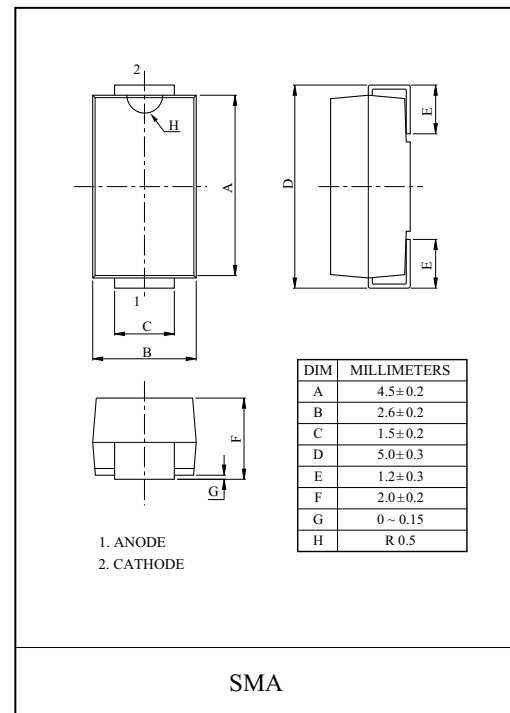
- Ultra-Fast Recovery Time for High Efficiency.
- Low Profile Surface Mount Package.
- Low Forward Voltage Drop, High current Capability, and Low Power Loss.

### APPLICATION

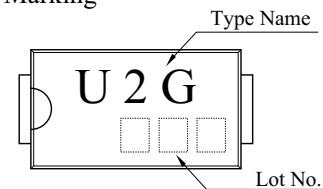
- Switching Power Supply.
- DC/DC Converter.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.

### MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC   | SYMBOL    | RATING    | UNIT |
|--|-----------|-----------|------|
| Maximum Repetitive Peak Reverse Voltage                    | $V_{RRM}$ | 400       | V    |
| Average Output Rectified Current                           | $I_O$     | 2         | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | $I_{FSM}$ | 55        | A    |
| Junction Temperature                                       | $T_j$     | -40 ~ 150 | °C   |
| Storage Temperature Range                                  | $T_{stg}$ | -40 ~ 150 | °C   |



### Marking



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

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION                             | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|--|------|------|------|------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM}=2.0A$                              | -    | -    | 1.3  | V    |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM}$ =Rated                           | -    | -    | 10   | μA   |
| Reverse Recovery Time           | $t_{rr}$      | $I_F=100mA, I_R=200mA$                     | -    | -    | 50   | ns   |
| Thermal Resistance              | $R_{th(j-l)}$ | Junction to lead                           | -    | -    | 23   | °C/W |
|                                 | $R_{th(j-a)}$ | Junction to ambient (on alumina substrate) | -    | -    | 108  | °C/W |

# SMAU2G

