

# MA3U760

## Silicon epitaxial planar type (cathode common)

For switching mode power supply

### ■ Features

- Surface mounting type
- High reverse voltage  $V_R$
- Low forward voltage  $V_F$
- Cathode-common dual type
- U-type package

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter                                   | Symbol      | Rating      | Unit             |
|---|-------------|-------------|------------------|
| Repetitive peak reverse-voltage             | $V_{RRM}$   | 90          | V                |
| Average forward current                     | $I_{F(AV)}$ | 5           | A                |
| Non-repetitive peak forward-surge-current * | $I_{FSM}$   | 40          | A                |
| Junction temperature                        | $T_j$       | -40 to +125 | $^\circ\text{C}$ |
| Storage temperature                         | $T_{stg}$   | -40 to +125 | $^\circ\text{C}$ |

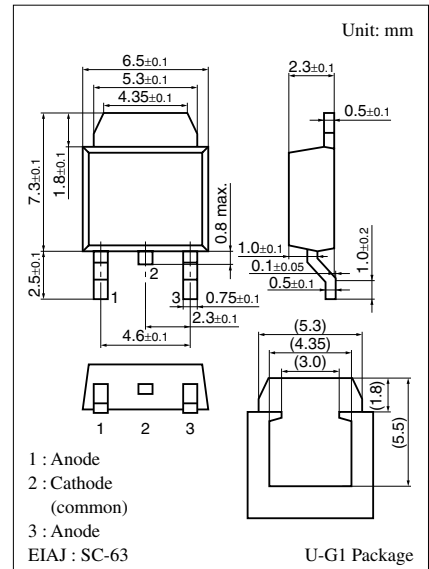
Note) \*: Half sine wave; 10 ms/cycle

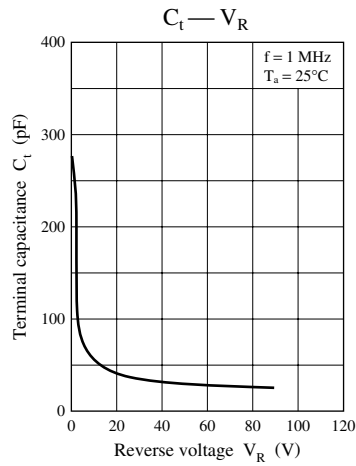
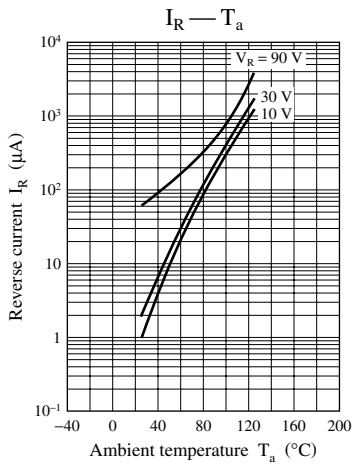
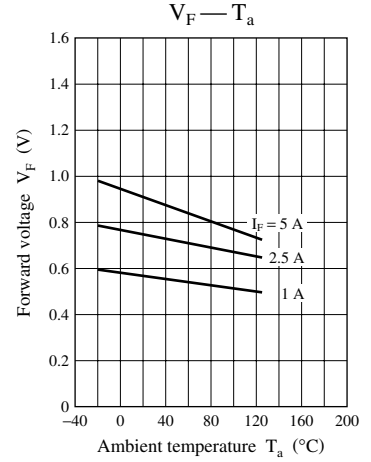
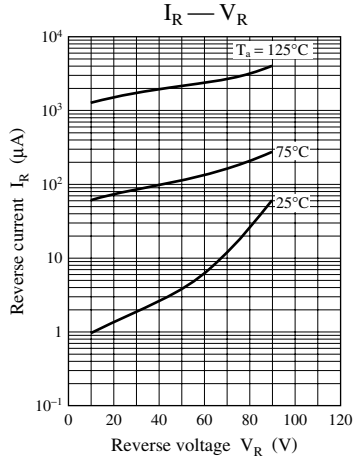
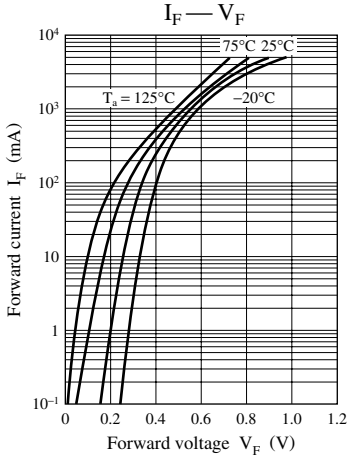
### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter                    | Symbol        | Conditions                                      | Min | Typ | Max  | Unit               |
|------------------------------|---------------|---|-----|-----|------|--------------------|
| Reverse current (DC)         | $I_R$         | $V_R = 90\text{ V}$ , $T_C = 25^\circ\text{C}$  |     |     | 1.0  | mA                 |
| Forward voltage (DC)         | $V_F$         | $I_F = 2.5\text{ A}$ , $T_C = 25^\circ\text{C}$ |     |     | 0.85 | V                  |
| High voltage rectification * | $R_{th(j-c)}$ | Between junction and case                       |     |     | 12.5 | $^\circ\text{C/W}$ |

Note) 1. Rated input/output frequency: 1 GHz

2. \*:  $T_C = 25^\circ\text{C}$





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