

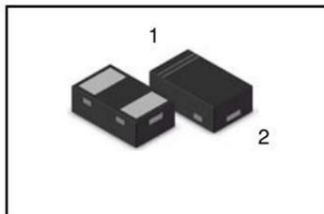
## Features

- Average forward current:  $I_{F(AV)}$  100 mA
- Reverse voltage:  $V_R$  30 V
- Low forward voltage:  $V_F$  500 mV @10mA
- Low reverse current:  $I_R$  0.7  $\mu$ A
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

## Applications

- Low current rectification

### DFN0603(0201)



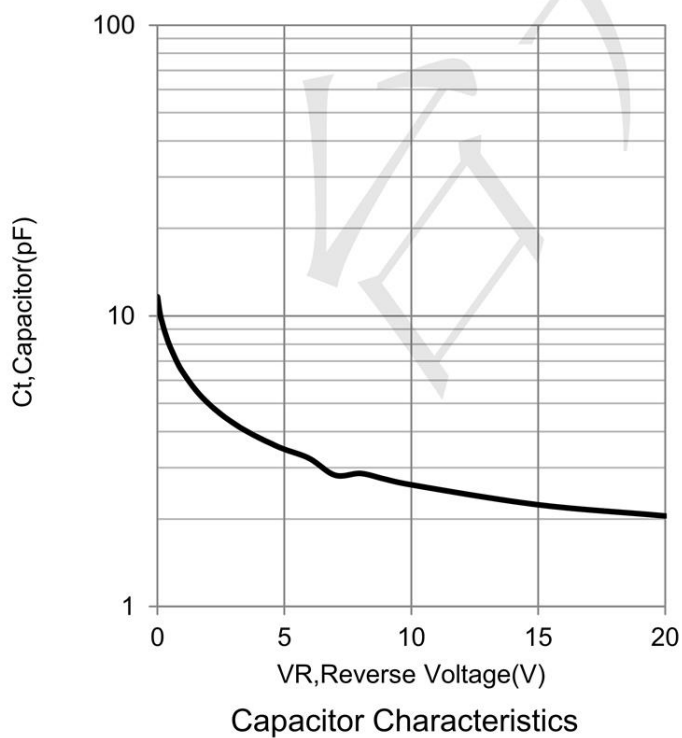
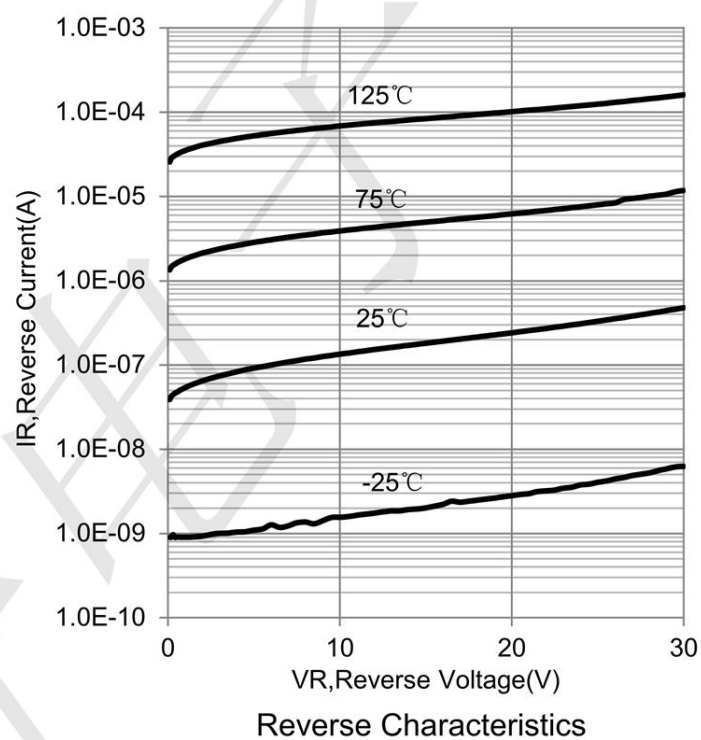
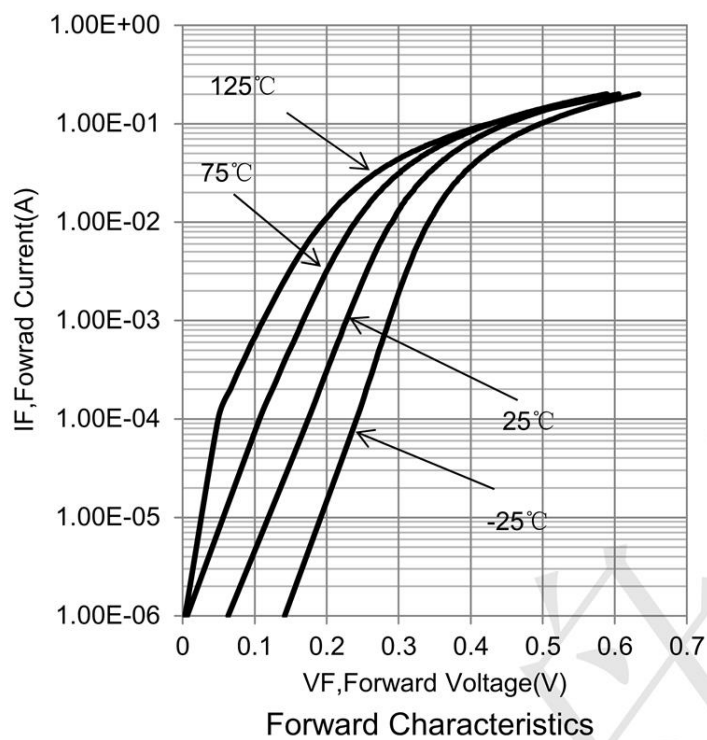
### Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

| Parameter                         | Symbol    | Limits   | Unit |
|-----------------------------------|-----------|----------|------|
| Reverse voltage(DC)               | $V_R$     | 30       | V    |
| Peak forward current              | $I_{FM}$  | 200      | mA   |
| Average rectified forward current | $I_o$     | 100      | mA   |
| Peak forward surge current        | $I_{FSM}$ | 2        | A    |
| Junction temperature              | $T_j$     | 125      | °C   |
| Storage Temperature Range         | $T_{STG}$ | -40~+125 | °C   |

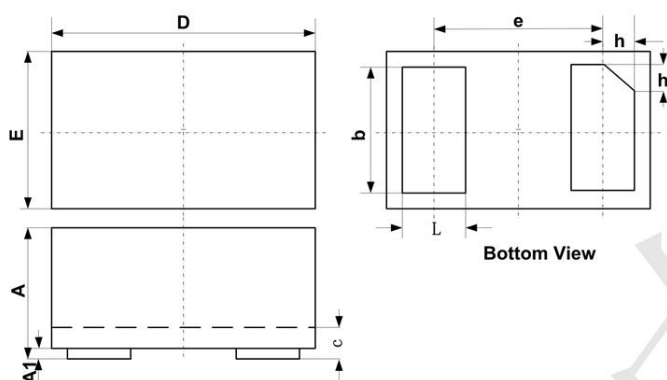
### Electrical Characteristics (TA=25°C unless otherwise specified)

| Parameter         | Symbol | Min. | Typ. | Max. | Unit    | Conditions           |
|-------------------|--------|------|------|------|---------|----------------------|
| Forward voltage   | $V_F$  | -    | 0.35 |      | V       | $I_F=10mA$           |
|                   |        | -    | 0.53 | 0.6  | V       | $I_F=100mA$          |
| Reverse current   | $I_R$  |      |      | 0.35 | $\mu$ A | $V_R=10V$            |
|                   |        | -    |      | 0.7  | $\mu$ A | $V_R=30V$            |
| Total capacitance | $C_t$  | -    | 8    |      | pF      | $V_R = 0V, f = 1MHz$ |

**Typical Performance Characteristics ( $T_A=25^\circ\text{C}$  unless otherwise Specified)**

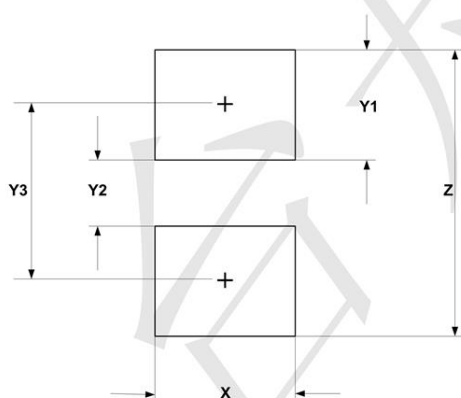


**DFN0603-2 Package Outline Drawing (0201)**



| SYM | DIMENSIONS  |       |       |
|-----|-------------|-------|-------|
|     | MILLIMETERS |       |       |
|     | MIN         | NOM   | MAX   |
| A   | 0.230       | 0.300 | 0.330 |
| A1  | 0.000       | 0.020 | 0.050 |
| b   | 0.215       | 0.245 | 0.275 |
| c   | 0.120       | 0.150 | 0.180 |
| D   | 0.550       | 0.600 | 0.650 |
| e   | 0.355 BSC   |       |       |
| E   | 0.250       | 0.300 | 0.350 |
| L   | 0.160       | 0.190 | 0.220 |
| h   | 0.079 BSC   |       |       |

**Suggested Land Pattern**



| SYM | DIMENSIONS  |        |
|-----|-------------|--------|
|     | MILLIMETERS | INCHES |
| X   | 0.30        | 0.012  |
| Y1  | 0.25        | 0.010  |
| Y2  | 0.15        | 0.006  |
| Y3  | 0.40        | 0.016  |
| Z   | 0.65        | 0.026  |