

Features

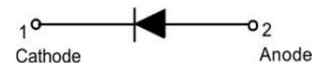
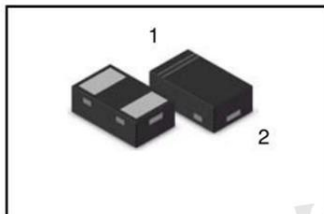
- Average forward current: $I_{F(AV)}$ 100 mA
- Reverse voltage: V_R 30 V
- Low forward voltage: V_F 500 mV @10mA
- Low reverse current: I_R 0.7 μ A
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

Applications

- Low current rectification



DFN0603(0201)



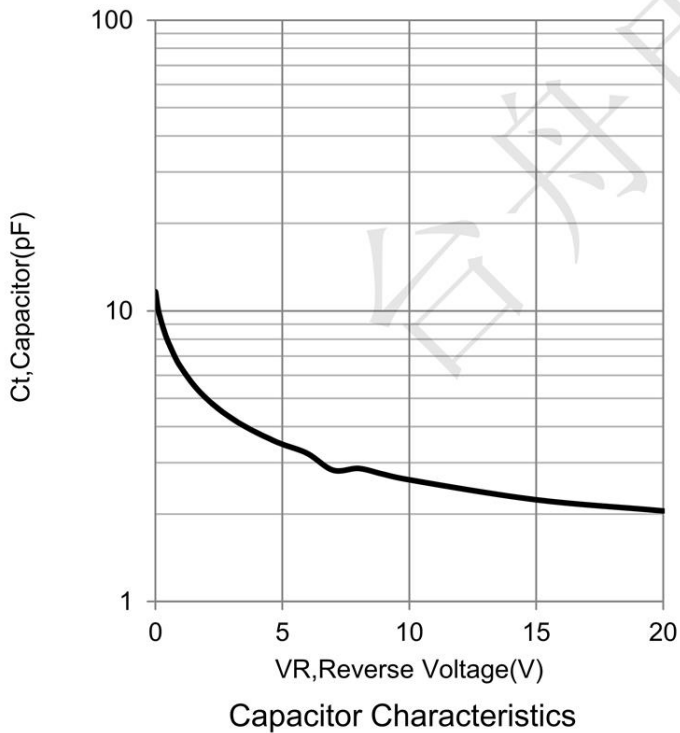
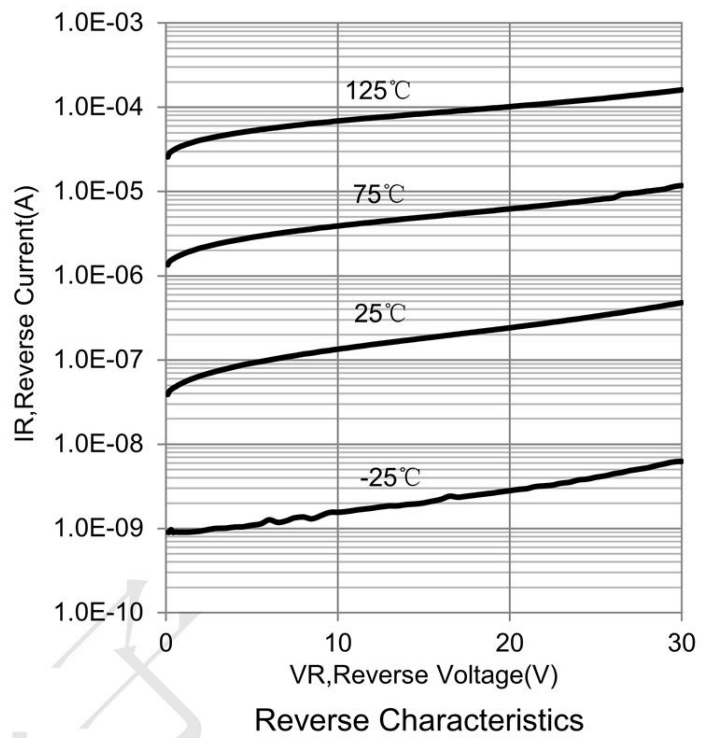
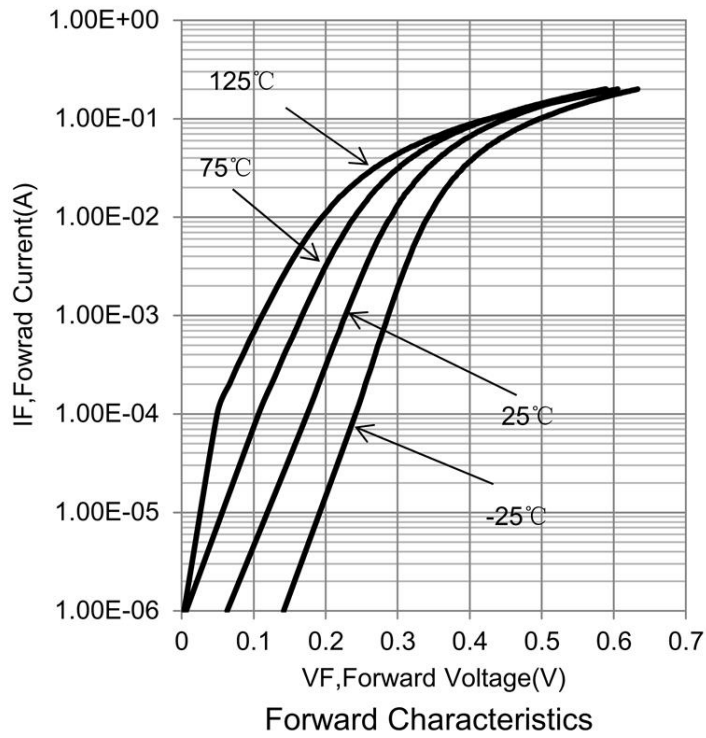
Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

| 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 |

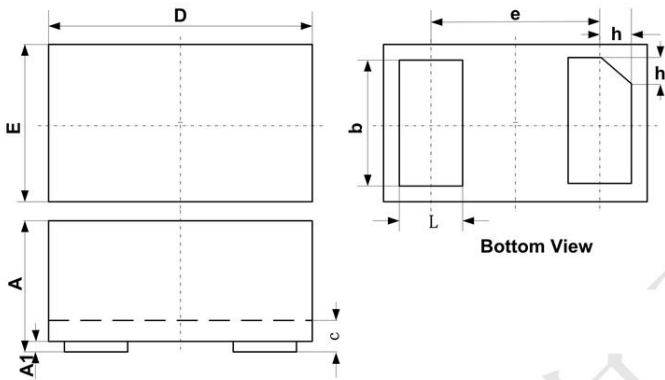
Electrical Characteristics (T_A=25°C unless otherwise specified)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------|--------|------|------|------|---------|------------------------|
| Forward voltage | V_F | - | 0.38 | 0.5 | V | $I_F=10mA$ |
| | | - | 0.53 | 0.6 | V | $I_F=100mA$ |
| Reverse current | I_R | - | - | 0.35 | μ A | $V_R=10V$ |
| | | - | - | 0.7 | μ A | $V_R=30V$ |
| Total capacitance | C_t | - | 8 | - | pF | $V_R = 0 V, f = 1 MHz$ |

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

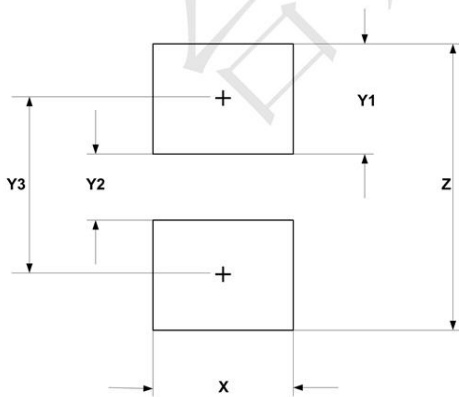


DFN0603-2 Package Outline Drawing (0201)



| 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 |