

PLANAR SCHOTTKY BARRIER DIODE

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |

FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



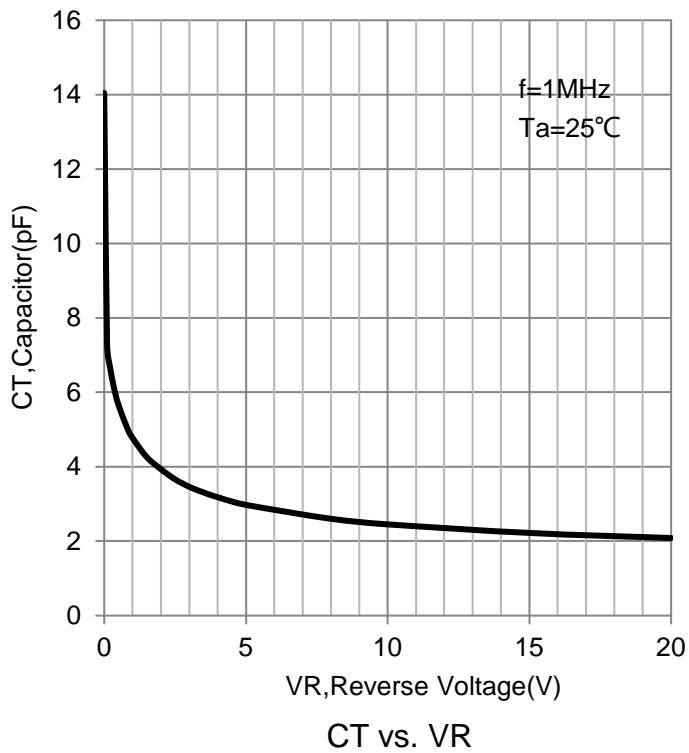
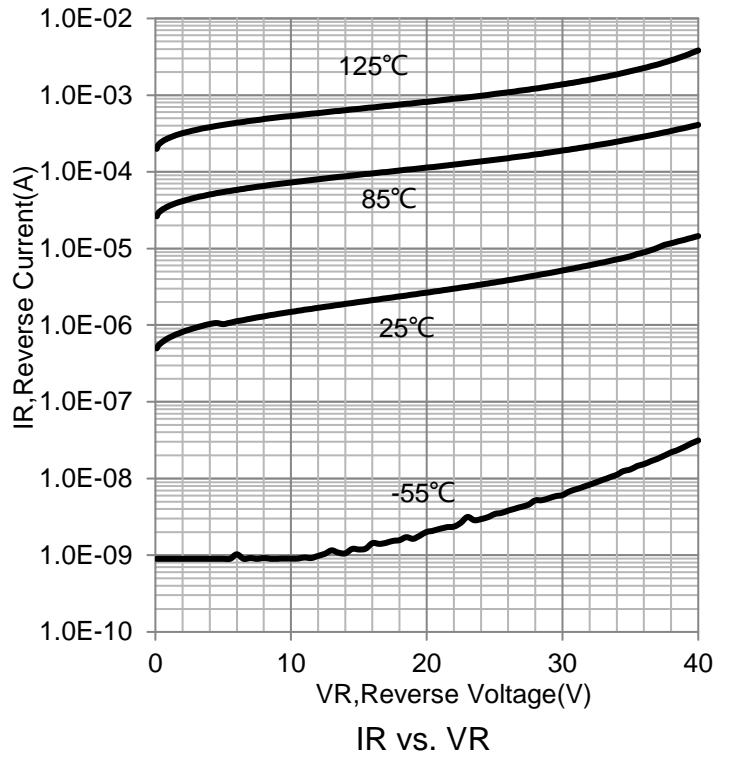
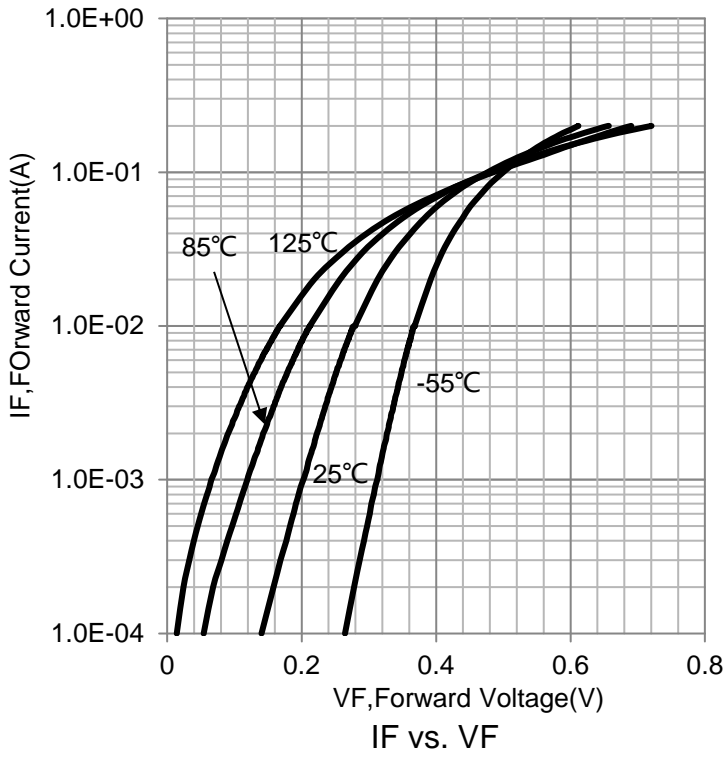
■ Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

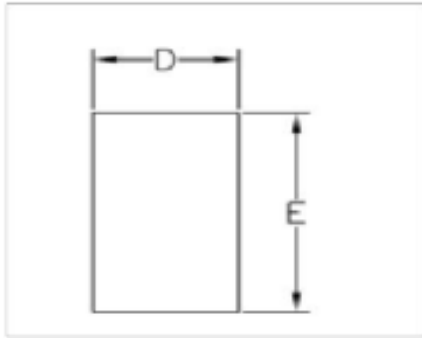
| Parameter | Symbol | Limit | Unit |
|---|-----------------|------------|------|
| DC reverse voltage | V_R | 30 | V |
| Mean rectifying current | I_O | 100 | mA |
| Non-repetitive Peak forward surge current @ t=8.3ms | I_{FSM} | 500 | mA |
| Power dissipation | P_D | 200 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 500 | °C/W |
| Operating Junction Temperature Range | T_j | -40 ~ +125 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | °C |

■ Electrical Ratings @Ta=25°C

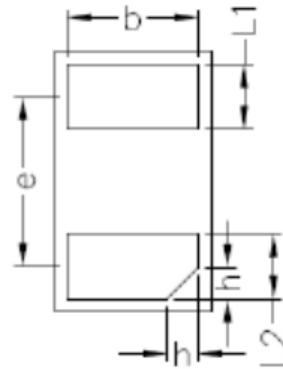
| Parameter | Symbol | Test Condition | Min | Typ | Max | Unit |
|---------------------------|------------|----------------|-----|-----|------|---------|
| Reverse breakdown voltage | $V_{(BR)}$ | $I_R=10\mu A$ | 30 | | | V |
| Reverse current | I_R | $V_R=10V$ | | | 2 | μA |
| Forward voltage | V_F | $I_F=10mA$ | | | 0.40 | V |
| | | $I_F=20mA$ | | | 0.45 | V |
| | | $I_F=100mA$ | | | 0.60 | V |
| | | $I_F=200mA$ | | | 0.70 | V |

Typical Characteristics

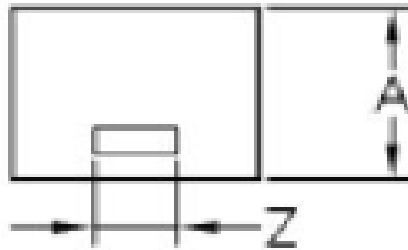


DFN1006-2L Package Outline Dimensions


TOP VIEW



BOTTOM VIEW



SIDE VIEW

| Symbol | Dimensions In Millimeters | | |
|--------|---------------------------|------|------|
| | Min | Nom | Max |
| D | 0.55 | 0.60 | 0.65 |
| E | 0.95 | 1.00 | 1.05 |
| L1 | 0.20 | 0.25 | 0.30 |
| L2 | 0.20 | 0.25 | 0.30 |
| A | 0.45 | 0.50 | 0.55 |
| Z | 0.15 | 0.20 | 0.25 |
| b | 0.45 | 0.50 | 0.55 |
| e | 0.64BSC | | |
| h | 0.07 | 0.12 | 0.17 |

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