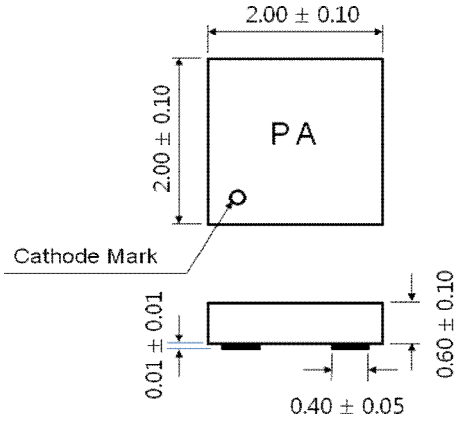
## Features

- Peak pulse power, $P_{PP}$ = 300W ($t_p$ = 10/1000 μs)
- Suitable for surface-mounted design
- Reverse standoff voltage : 26V
- Low package height : 0.6 mm
- Halogen – free

**Package type : LLP2020B**

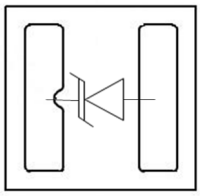



**[unit : mm]**

## Applications

- Power supply protection
- Automotive application
- Industrial application
- USB Vbus protection
- Power management

**Schematic & PIN Configuration**



## Absolute Maximum Ratings at $T_A$ = 25 °C

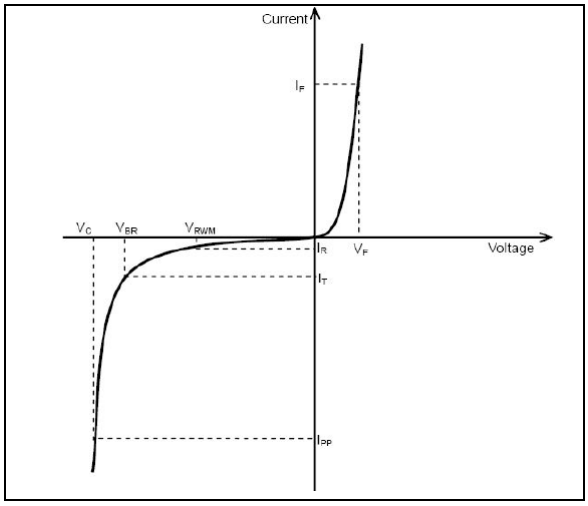
| Rating | Symbol | Value | Unit |
|---|---|---|---|
| Peak Pulse Power ($t_p$ = 10/1000 μs) | $P_{PP}$ | 300 | Watts |
| Total Power Dissipation | $P_D$ | 500 | mW |
| Maximum Peak Pulse Current ($t_p$ = 10/1000 μs) | $I_{PP}$ | 9.5 | Amps |
| ESD per IEC 61000-4-2 (air)<br>ESD per IEC 61000-4-2 (contact) | $V_{ESD}$ | ± 30<br>± 30 | kV |
| Junction Temperature | $T_J$ | -55 ~ 150 | ºC |
| Storage Temperature | $T_{STG}$ | -55 ~ 150 | ºC |

## Electrical Characteristics at $T_A$ = 25 °C

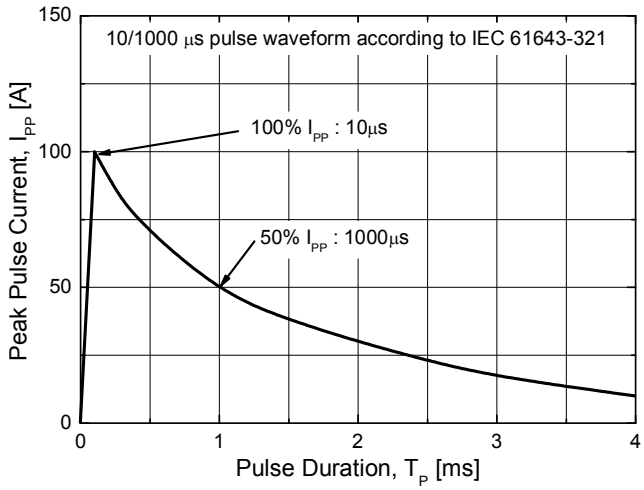
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min | Typ | Max | |
| Reverse Stand-off Voltage | $V_{RWM}$ | | | | 26 | V |
| Reverse Breakdown Voltage | $V_{BR}$ | $I_T$ = 1 mA | 28 | | 31.9 | V |
| Reverse Leakage Current | $I_R$ | $V_{RWM}$ = 26 V, T = 25 ºC | | | 0.1 | μA |
| Forward Voltage | $V_F$ | $I_F$ = 10 mA | 0.6 | 0.8 | 1.2 | V |
| Clamping Voltage | $V_C$ | $I_{PP}$ = 9.5 A, $t_p$ = 10/1000 μs | | | 40 | V |

## Electrical Characteristics

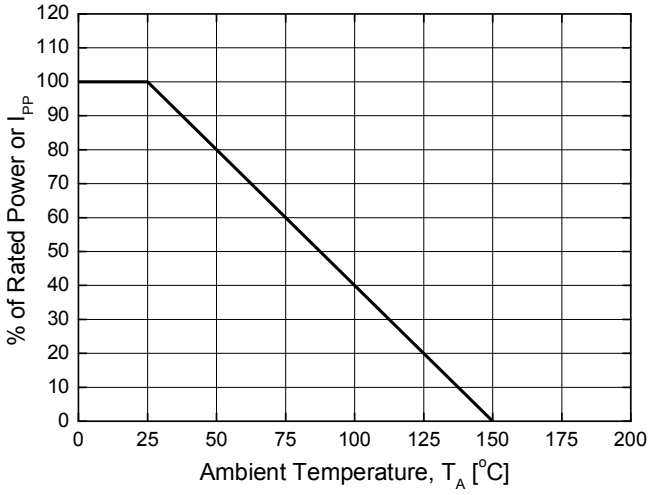
| Symbol | Parameter |
|---|---|
| $I_{PP}$ | Maximum Reverse Peak Pulse Current |
| $V_C$ | Clamping Voltage @ $I_{PP}$ |
| $V_{RWM}$ | Working Peak Reverse Voltage |
| $I_R$ | Reverse Leakage Current @ $V_{RWM}$ |
| $V_{BR}$ | Breakdown Voltage @ $I_T$ |
| $I_T$ | Test Current |
| $I_F$ | Forward Current |
| $V_F$ | Forward Voltage @ $I_F$ |
| $P_{PP}$ | Peak Power Dissipation |



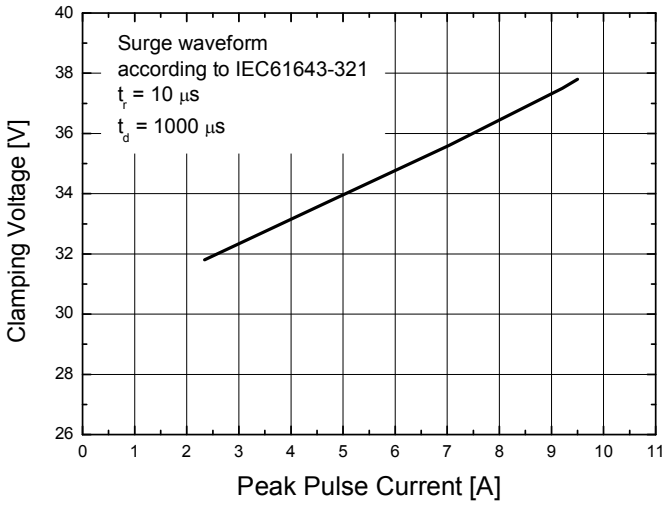

**Peak Pulse Waveform**



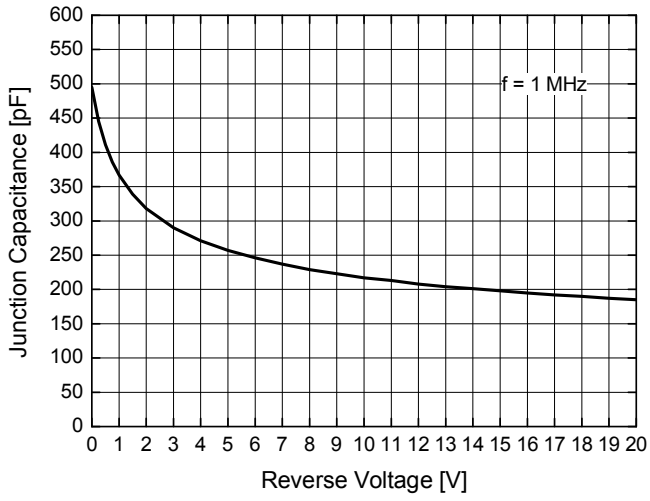

**Power Derating Curve**



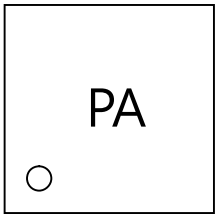

**Clamping Voltage vs. Peak Pulse Current**




**Junction Capacitance vs. Reverse Voltage**

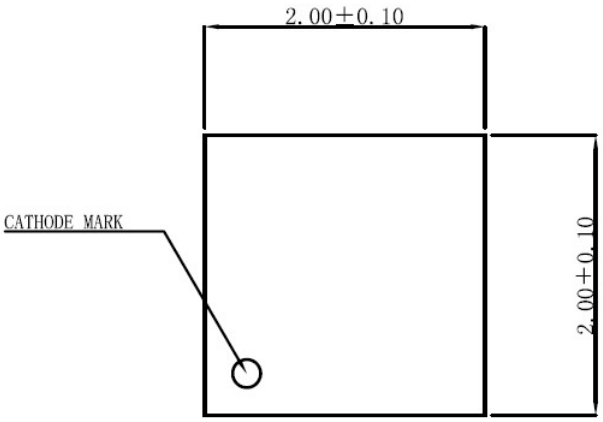


## Marking Code

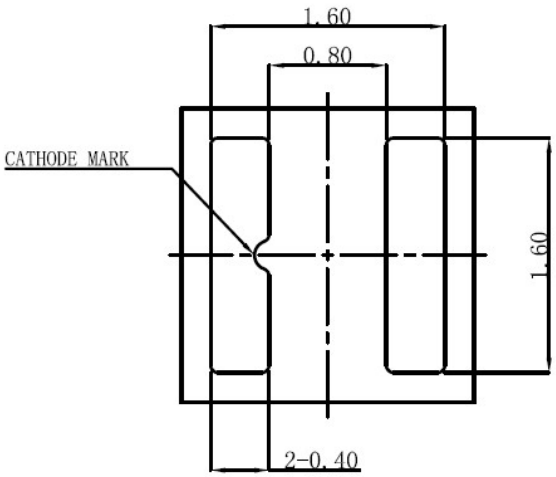



## Package Dimensions

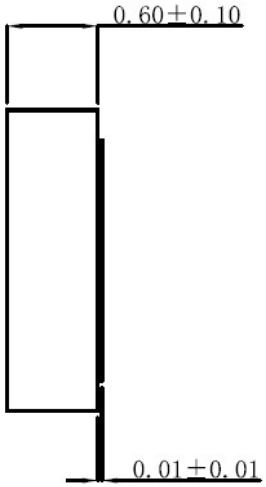
Unit : mm




Top view

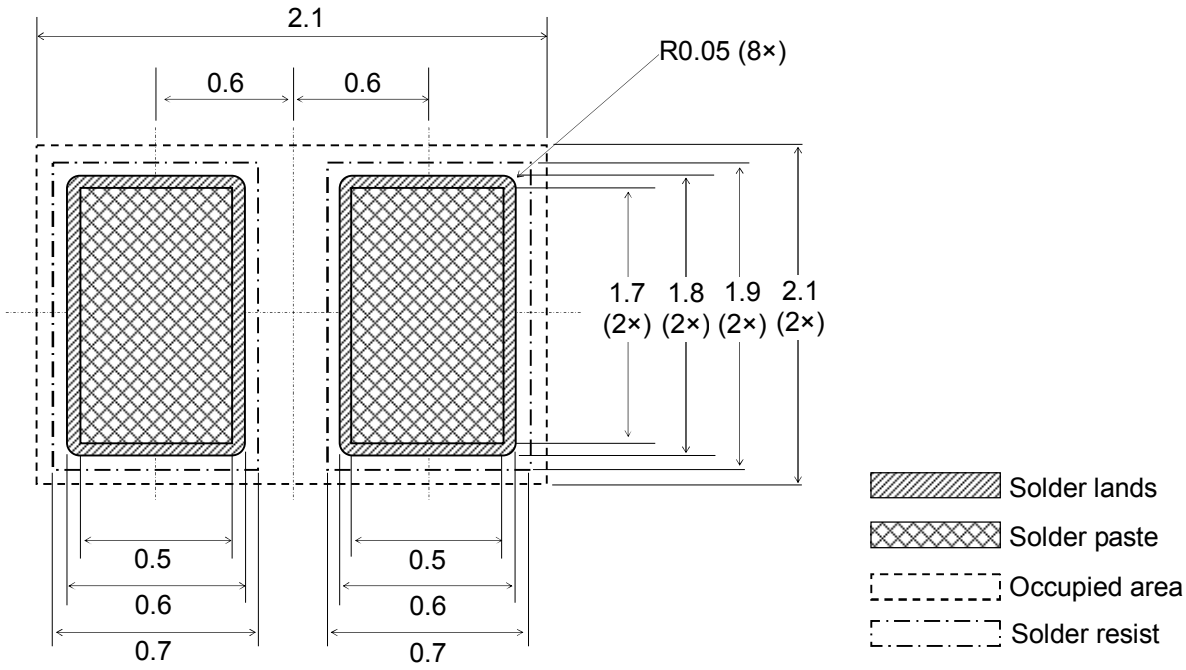



Bottom view




Side view

## Soldering




Unit : mm