

DFN1006-3L High Surge

Peak Pulse Power 60 Watts, **VR 3.3V**

Bi-directional ESD Protection Diode

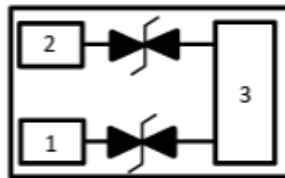
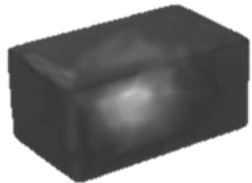
Features / Competitors / Selling Points

- IEC 61000-4-2 (ESD) :±30kV(Contact) / ±30kV(Air)
- Peak Pulse Power :Ppp = 60W (tp=8/20 us)
- MOQ 100kpcs / One Box
- RoHS compliant
- Low Leakage Current
- Low Clamping Voltage
- Reverse Working Voltage : 3.3V

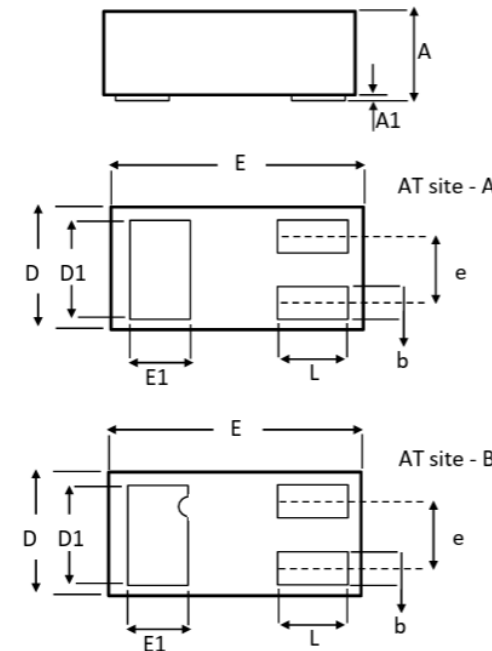
Major Applications

- IoT Terminal Equipment & Device
- Portable Electronics
- Smart Wearable Device
- Cell phone Handsets and Accessories

| Part Number | Package | Reverse Working Voltage(Max) | Peak Power Dissipation @8/20us | Peak Pulse Current @8/20us | Max Clamping Voltage @ 8/20us | Uni/Bi | Off-State Capacitance 1Mhz Zero DC Bias | ESD Protection Contact (Standard IEC 61000-4-2) |
|-------------|------------|-------------------------------|--------------------------------|----------------------------|-------------------------------|--------|---|---|
| | | VR(V) | Ppp(W) | Ipp(A) | Vc(V) | | Cj (pF) | VESD(±kV) |
| H05X43V3B | DFN1006-3L | 3.3 | 60 | 5 | 12 | Bi | 16.5 | 30 |



Device Schematic & PIN Configuration



| DFN1006-3L Package | | |
|----------------------|----------|------|
| Dim | Min | Max |
| A | 0.45 | 0.55 |
| A1 | - | 0.05 |
| D | 0.55 | 0.65 |
| E | 0.95 | 1.05 |
| D1 | 0.45 | 0.55 |
| E1 | 0.20 | 0.30 |
| e | 0.35 BSC | |
| L | 0.20 | 0.30 |
| b | 0.10 | 0.20 |
| All Dimensions in mm | | |

Package Outline Dimensions

DFN1006-3L High Surge

Peak Pulse Power 72 Watts, VR 5V

Bi-directional ESD Protection Diode

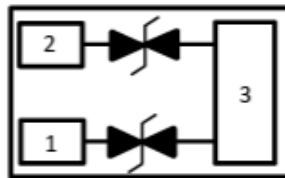
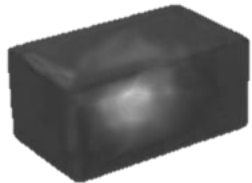
Features / Competitors / Selling Points

- IEC 61000-4-2 (ESD) :±30kV(Contact) / ±30kV(Air)
- Peak Pulse Power :Ppp = 72W (tp=8/20 us)
- MOQ 100kpcs / One Box
- RoHS compliant
- Low Leakage Current
- Low Clamping Voltage
- Reverse Working Voltage : 5V

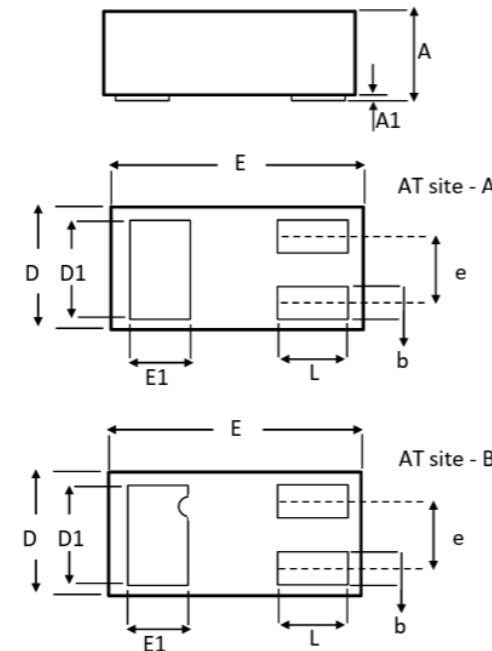
Major Applications

- IoT Terminal Equipment & Device
- Portable Electronics
- Smart Wearable Device
- Cell phone Handsets and Accessories

| Part Number | Package | Reverse Working Voltage(Max) | Peak Power Dissipation @8/20us | Peak Pulse Current @8/20us | Max Clamping Voltage @ 8/20us | Uni/Bi | Off-State Capacitance 1Mhz Zero DC Bias | ESD Protection Contact (Standard IEC 61000-4-2) |
|-------------|------------|-------------------------------|--------------------------------|----------------------------|-------------------------------|--------|---|---|
| | | VR(V) | Ppp(W) | Ipp(A) | Vc(V) | | Cj (pF) | VESD(±kV) |
| H06X45V0B | DFN1006-3L | 5 | 72 | 6 | 12 | Bi | 18 | 30 |



Device Schematic & PIN Configuration



| DFN1006-3L Package | | |
|----------------------|----------|------|
| Dim | Min | Max |
| A | 0.45 | 0.55 |
| A1 | - | 0.05 |
| D | 0.55 | 0.65 |
| E | 0.95 | 1.05 |
| D1 | 0.45 | 0.55 |
| E1 | 0.20 | 0.30 |
| e | 0.35 BSC | |
| L | 0.20 | 0.30 |
| b | 0.10 | 0.20 |
| All Dimensions in mm | | |

Package Outline Dimensions

DFN0603 Ultra Low Capacitance

Peak Pulse Power 64 Watts, **VR 12V**

Bi-directional ESD Protection Diode

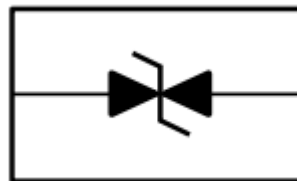
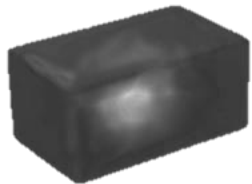
Features / Competitors / Selling Points

- IEC 61000-4-2 (ESD) :±15kV(Contact) / ±20kV(Air)
- Peak Pulse Power :Ppp = 64W (tp=8/20 us)
- MOQ 150kpcs / One Box
- RoHS compliant
- Low Leakage Current
- Low Clamping Voltage
- Ultra low Capacitance : 0.25pF (Typ)

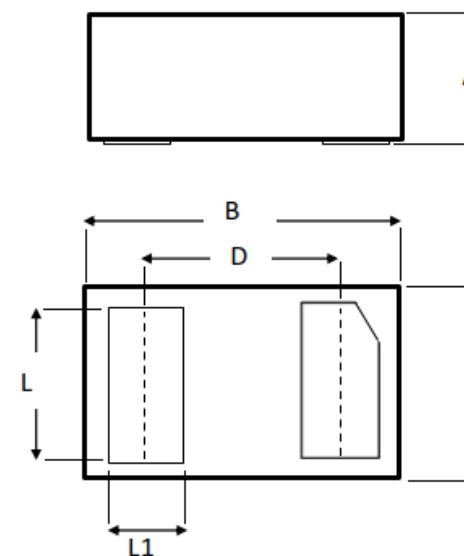
Major Applications

- Computers and peripherals
- High-speed data lines

| Part Number | Package | Reverse Working Voltage(Max) | Peak Power Dissipation @8/20us | Peak Pulse Current @8/20us | Max Clamping Voltage @ 8/20us | Uni/Bi | Off-State Capacitance 1Mhz Zero DC Bias | ESD Protection Contact (Standard IEC 61000-4-2) |
|-------------|---------|-------------------------------|--------------------------------|----------------------------|-------------------------------|--------|---|---|
| | | VR(V) | Ppp(W) | Ipp(A) | Vc(V) | | Cj (pF) | VESD(±kV) |
| H02X312VBU | DFN0603 | 12 | 64 | 2 | 32 | Bi | 0.4 | 15 |



Device Schematic & PIN Configuration



| DFN0603 Package | | |
|----------------------|-----------|------|
| Dim | Min | Max |
| A | 0.28 | 0.35 |
| B | 0.58 | 0.65 |
| C | 0.28 | 0.34 |
| L | 0.20 | 0.26 |
| L1 | 0.13 | 0.19 |
| D | 0.36(Typ) | |
| All Dimensions in mm | | |

Package Outline Dimensions