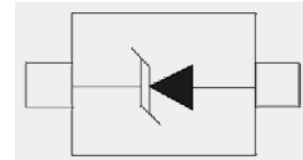




Protects one uni-directional I/O line
Low clamping voltage
Working voltage: 36V
Low leakage current
RoHS compliant
AEC-Q101 qualified



SOD-523



Pin Configuration

Cell phone handsets and accessories
Microprocessor based equipment
Personal digital assistants (PDA's)
Notebooks, desktops, and servers
Portable instrumentation
Peripherals
Digital cameras

IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact)
IEC61000-4-4 (EFT) 40A (5/50ns)
IEC61000-4-5 (Lightning) 4A (8/20 μs)

SOD-523 package
Molding compound flammability rating: UL 94V-0
Quantity per reel: 8,000pcs
Lead finish: lead free
Marking code: MP

($T_A=25^{\circ}\text{C}$, RH=45%-75%, unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--|-----------|------------------|------|
| Peak pulse power dissipation at 8/20 μs waveform | P_{PP} | 300 | W |
| ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact) | V_{ESD} | +/- 30 +/- 30 | kV |
| Lead soldering temperature | T_L | 260 (10 sec.) | |
| Operating junction temperature range | T_J | -55 to +150 | |
| Storage temperature range | T_{STG} | -55 to +150 | |

($T_A=25^{\circ}\text{C}$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---------------------------|-----------|--|-----|------|-----|---------------|
| Reverse working voltage | V_{RWM} | | | | 36 | V |
| Reverse breakdown voltage | V_{BR} | $I_T=1\text{mA}$ | 40 | | | V |
| Reverse leakage current | I_R | $V_{RWM}=36\text{V}$ | | 0.01 | 1 | μA |
| Clamping voltage | V_C | $I_{PP}=1\text{A}$, $t_P=8/20\mu\text{s}$ | | 45 | 60 | V |
| | | $I_{PP}=4\text{A}$, $t_P=8/20\mu\text{s}$ | | 58 | 70 | V |
| Junction capacitance | C_J | $V_{RWM}=0\text{V}$, $f=1\text{MHz}$ | | 22 | | pF |

($T_A=25^{\circ}\text{C}$, unless otherwise noted)

FIG.1: V- I curve characteristics (Uni-directional)

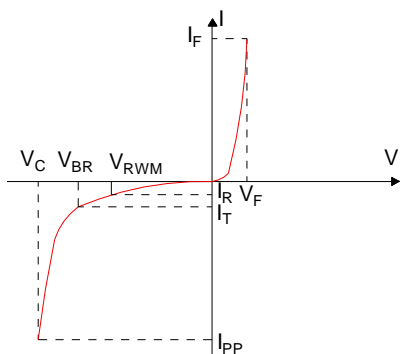


FIG.2: Pulse waveform (8/20 μs)

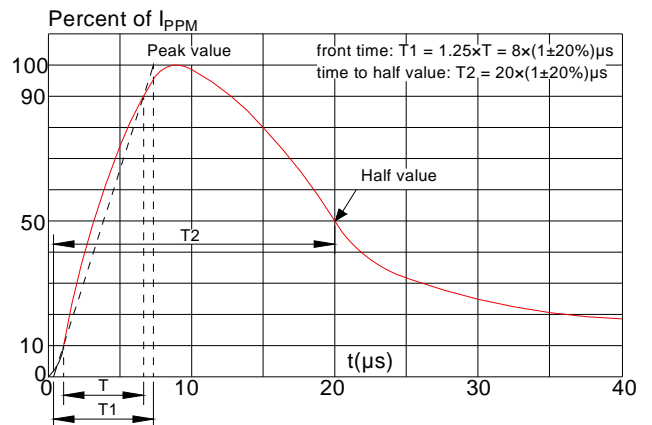


FIG.3: Pulse derating curve

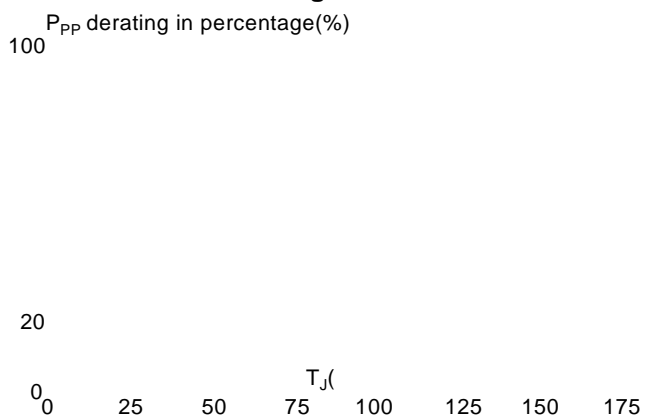
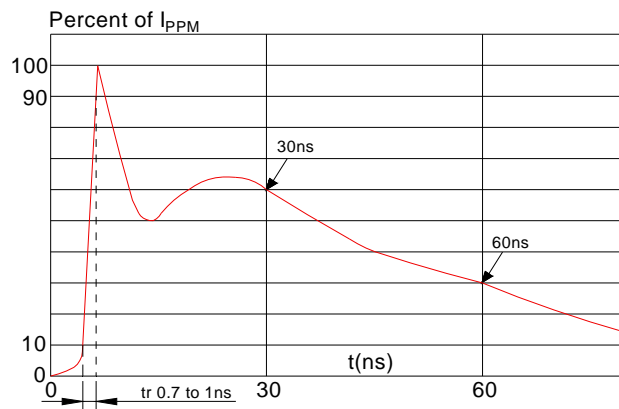
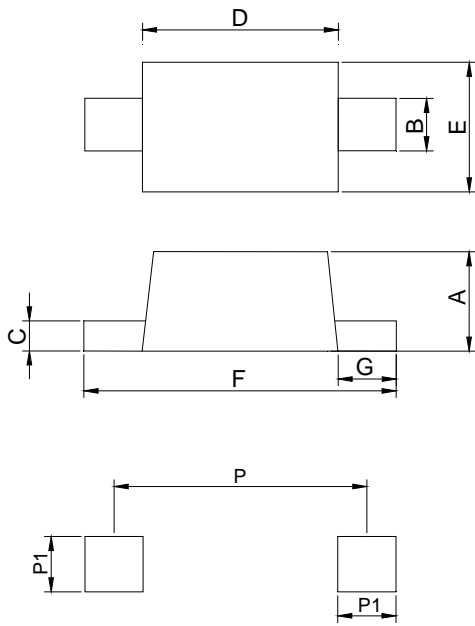


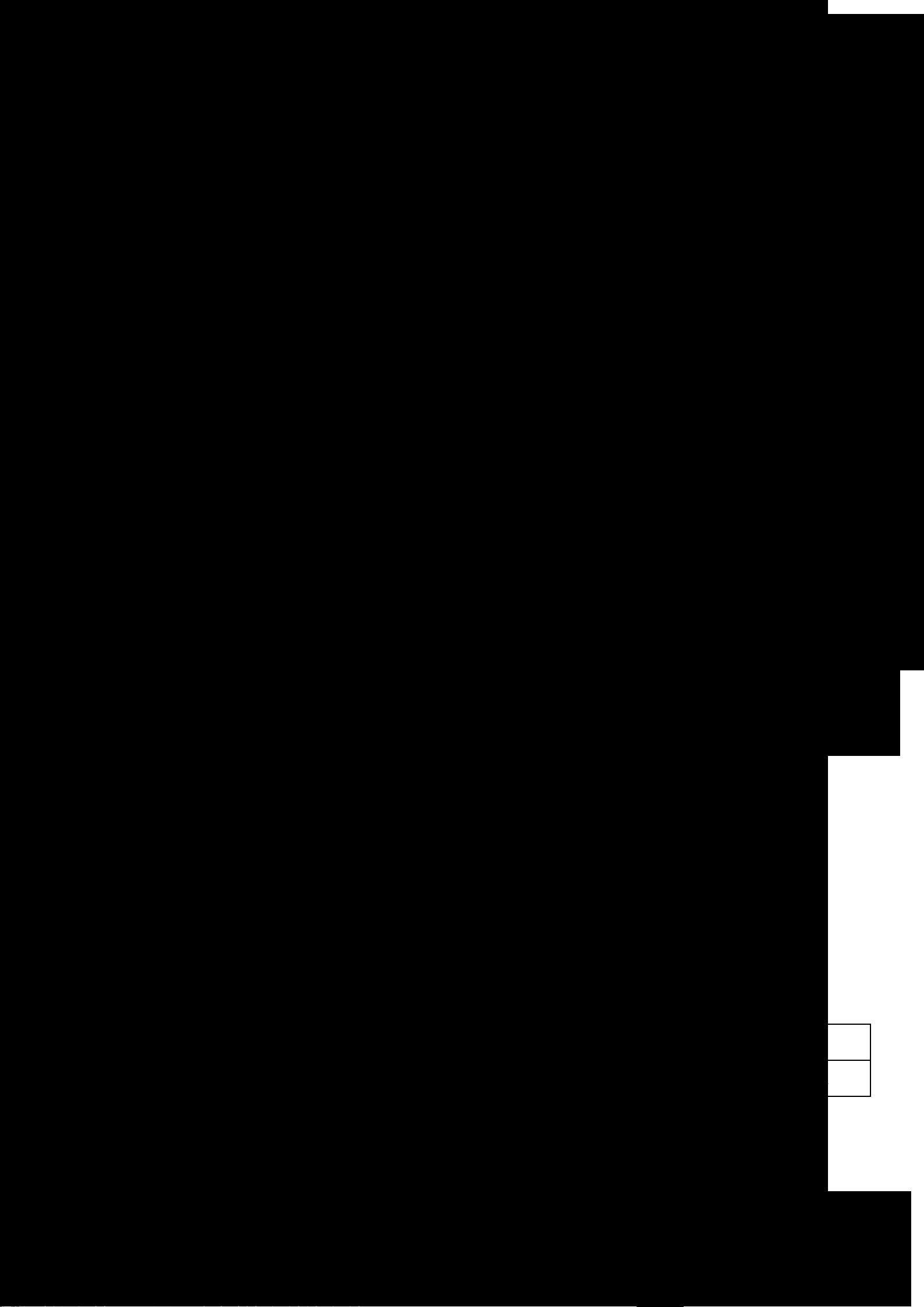
FIG.4: ESD clamping (30kV contact)






| Symbol | Millimeters | | | Inches | | |
|--------|-------------|-----|-----|--------|-----|-----|
| | Min | Typ | Max | Min | Typ | Max |
| | | | | | | |

Land Pattern



| |
|--|
| |
| |

| Part Number | Marking Code |
|-------------|--|
| JEU36D5P-AU |  |

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