## / Descriptions

SOD-323 ESD

SOD-323 Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

## / Features

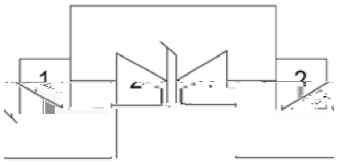
1ns 30KV IEC61000-4-2 4 ESD

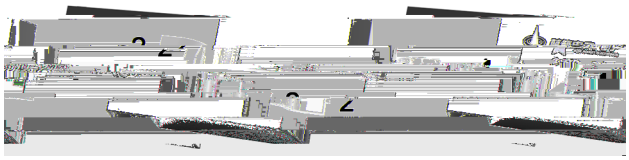
Ultra small package, Response Time is Typically < 1 ns, ESD > 30 kV per Human Body Model,IEC61000−4−2 Level 4 ESD Protection,HF Product.

## / Applications

MP3

Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users.



## / Marking

See Marking Instructions.

## / Absolute Maximum Ratings

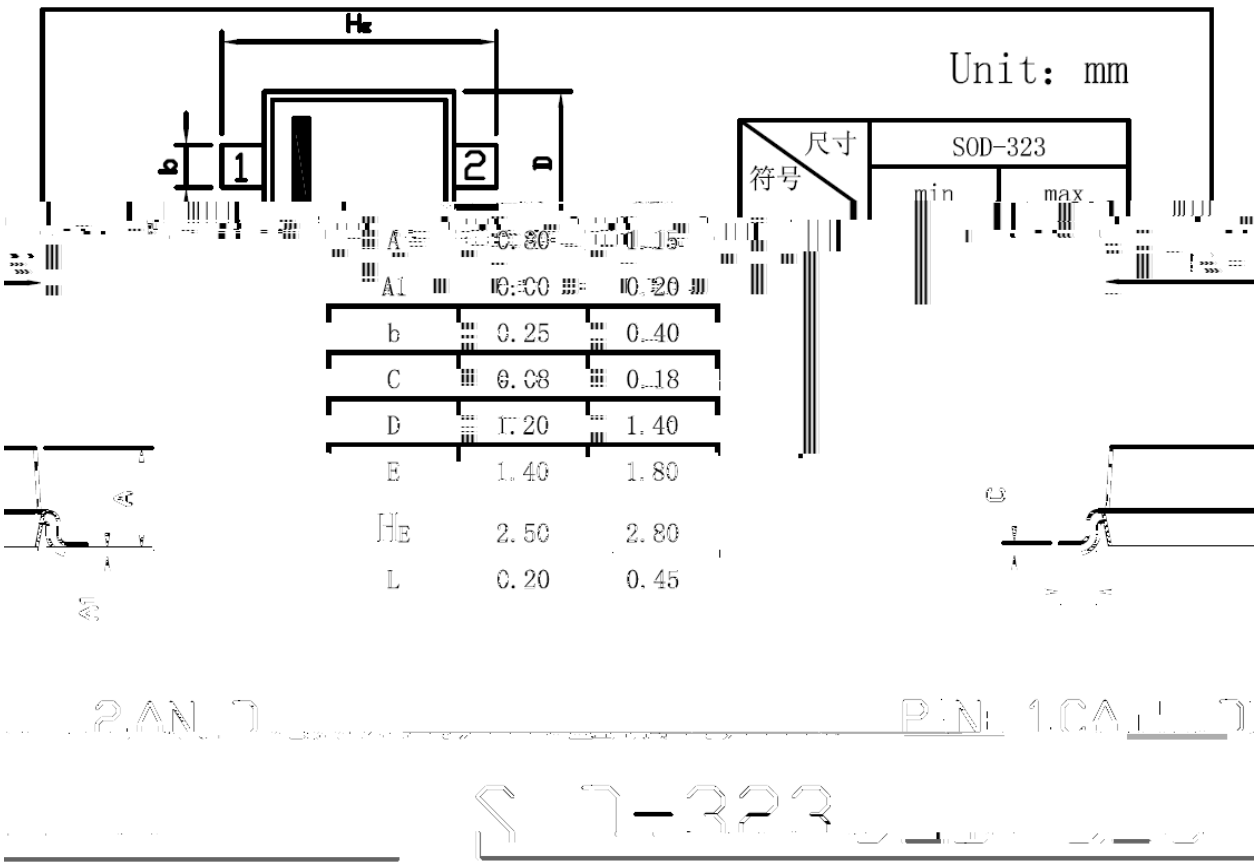
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Pulse Power($t_p$ = 8/20μs) | $P_{PK}$ | 320 | W |
| Peak Pulse Current($t_p$ = 8/20μs) | $I_{PP}$ | 5 | A |
| ESD according to IEC61000-4-2 air discharge | $V_{ESD}$ | ±30 | KV |
| ESD according to IEC61000-4-2 contact discharge | | ±30 | |
| Junction temperature | $T_J$ | -55~+150 | |
| Storage Temperature | $T_{STG}$ | -55~+150 | |

## / Electrical Characteristics(Ta=25 )

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse maximum working voltage | $V_{RWM}$ | | | | 36 | V |
| Reverse leakage current | $I_R$ | $V_{RWM}$ = 24V | | | 1 | uA |
| Reverse breakdown voltage [1)] | $V_{BR}$ | $I_T$=1mA | 40 | | | V |
| Clamping voltage [2)] | $V_{CL}$ | $I_{PP}$ = 1A $t_p$ = 8/20μs | | | 60 | V |
| | | $I_{PP}$ = 5A $t_p$ = 8/20μs | | | 75 | V |
| Junction Capacitance | $C_J$ | $V_R$ = 0V f = 1MHz | | 15 | 20 | pF |

$V_{BR}$ is measured with a pulse test current IT at an ambient temperature of 25 .

## / Package Dimensions



## / Marking Instructions



2N:

Note:

2N Product Type Code