| Part Number | Storage Temperature | Package | Marking | Devices Per Reel |
|---|---|---|---|---|
| JXP2N7002VRG | -55°C to +150°C | SOT-23 | 72K | 3000 |

**(TA=25 unless otherwise noted)**

| parameter | | symbol | limit | unit |
|---|---|---|---|---|
| Drain-source voltage | | $V_{DS}$ | 60 | V |
| Gate-source voltage | | $V_{GS}$ | ±20 | V |
| Continuous drain current ($T_J$ = 150 °C) [a] | $T_A$=25°C | $I_D$ | 380 | mA |
| | $T_A$=70°C | | 300 | |
| Pulsed drain current [b] | | $I_{DM}$ | 1200 | |
| Continuous source current (diode conduction) [a] | | $I_S$ | 380 | |
| Power dissipation [a] | $T_A$=25°C | $P_D$ | 0.71 | W |
| | $T_A$=70°C | | 0.46 | |
| Operating junction and storage temperature range | | $T_J$, $T_{stg}$ | -55—150 | |

| Parameter | | Symbol | Typ | Max | Unit |
|---|---|---|---|---|---|
| Maximum junction-to-ambient [a] | ≤ 5 s | $R_{\theta JA}$ | 120 | 145 | /W |
| | Steady-State | | 140 | 175 | |
| Maximum junction-to-foot | Steady-State | $R_{\theta JC}$ | 62 | 78 | |

Notes:

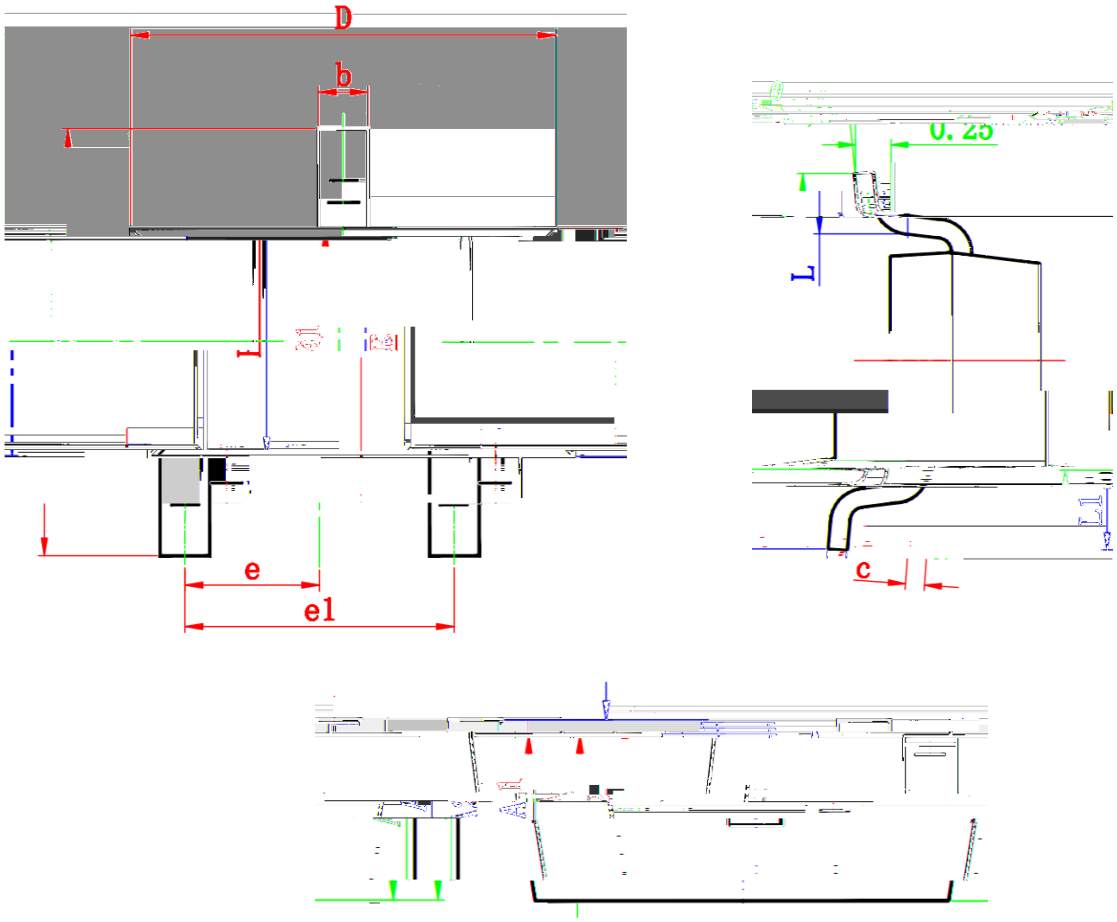
a. TC = 25 °C.

b. Surface mounted on 1" x 1" FR4 board.

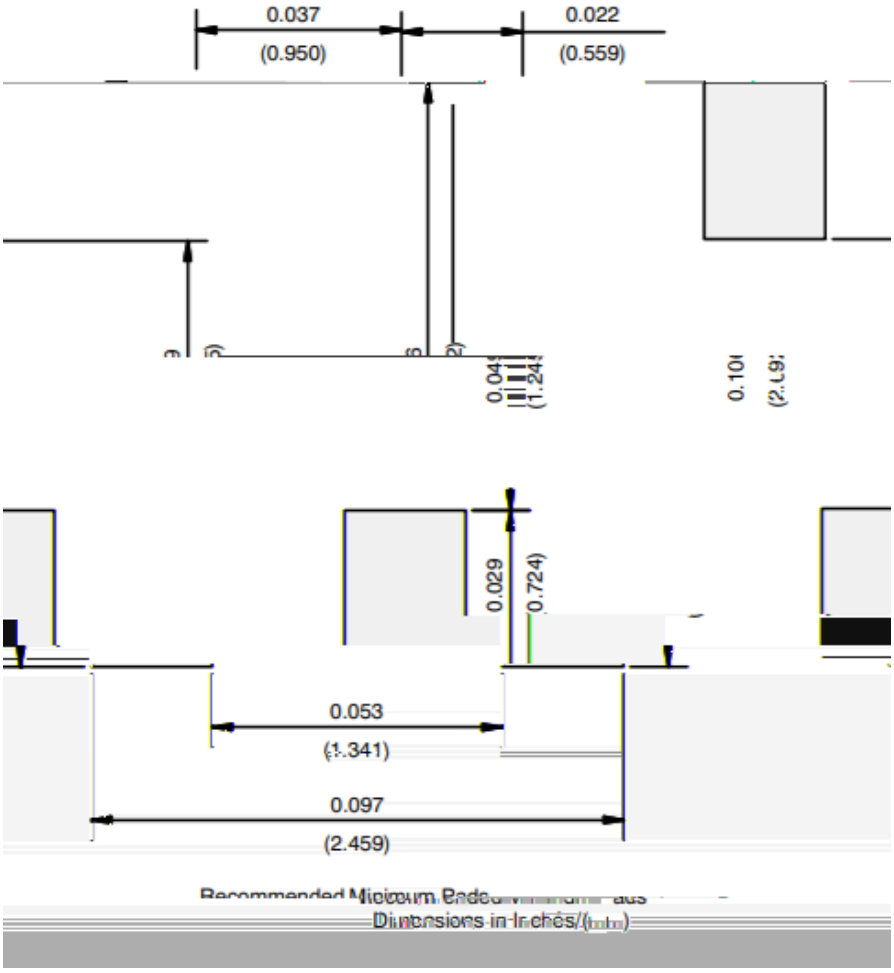
c. t = 5 s.  d. Maximum under steady state conditions is 400 °C/W.

($T_A$=25  unless otherwise noted)

**SOT-23**




| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|---|---|---|---|---|
| | Min. | Max. | Min. | Max. |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 2.250 | 2.550 | 0.089 | 0.100 |
| E1 | 1.200 | 1.400 | 0.047 | 0.055 |
| e | 0.950 TYP. | | 0.037 TYP. | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |


0.037
(0.950)
0.022
(0.559)
0.029
(0.724)
0.053
(1.341)
0.097
(2.459)
Dimensions in Inches/(mm)