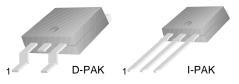


MJD32/32C

General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications Load Formed for Surface Mount Application (No Suffix)

- Straight Lead (I-PAK, "- I" Suffix)
- Electrically Similar to Popular TIP32 and TIP32C



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

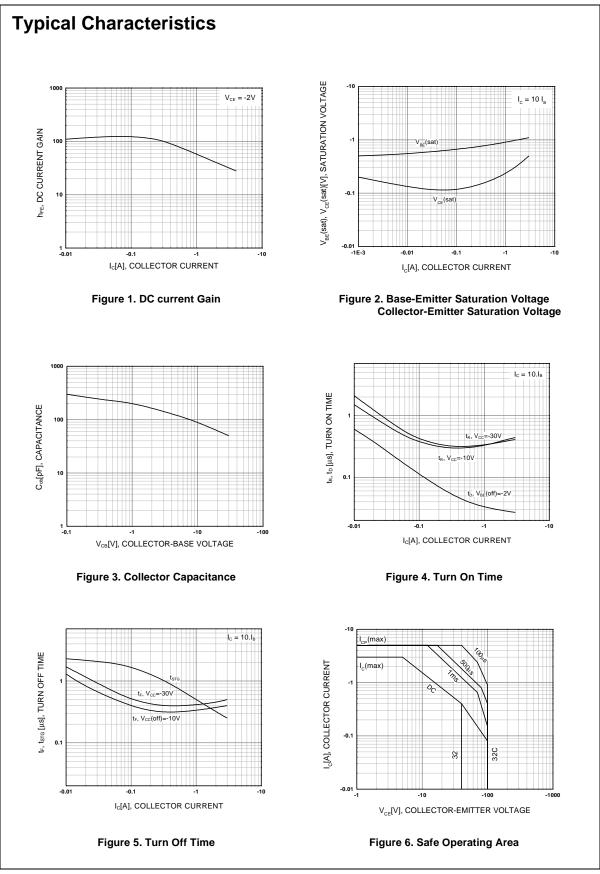
| Symbol | Parameter | Value | Units |
|------------------|--|------------|-------|
| V _{CBO} | Collector-Base Voltage | - 40 | V |
| | : MJD32 | - 100 | V |
| | : MJD32C | | |
| V_{CEO} | Collector-Emitter Voltage | - 40 | V |
| | : MJD32 | - 100 | V |
| | : MJD32C | | |
| V_{EBO} | Emitter-Base Voltage | - 5 | V |
| I _C | Collector Current (DC) | - 3 | А |
| I _{CP} | Collector Current (Pulse) | - 5 | А |
| I _B | Base Current | - 1 | А |
| P _C | Collector Dissipation (T _C =25°C) | 15 | W |
| | Collector Dissipation (T _a =25°C) | 1.56 | W |
| T _J | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | - 65 ~ 150 | °C |

Electrical Characteristics T_C=25°C unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Max. | Units |
|------------------------|--|--|------|------|-------|
| V _{CEO} (sus) | * Collector-Emitter Sustaining Voltage | | | | |
| 020 | : MJD32 | $I_C = -30 \text{mA}, I_B = 0$ | -40 | | V |
| | : MJD32C | | -100 | | V |
| I _{CEO} | Collector Cut-off Current | | | | |
| | : MJD32 | $V_{CE} = -40V, I_{B} = 0$ | | -50 | μΑ |
| | : MJD32C | $V_{CE} = -60V, I_{B} = 0$ | | -50 | μΑ |
| I _{CES} | Collector Cut-off Current | | | | |
| | : MJD32 | $V_{CE} = -40V, V_{BE} = 0$ | | -20 | μΑ |
| | : MJD32C | $V_{CE} = -100V, V_{BE} = 0$ | | -20 | μΑ |
| I _{EBO} | Emitter Cut-off Current | $V_{BE} = -5V, I_{C} = 0$ | | -1 | mA |
| h _{FE} | * DC Current Gain | V _{CE} = - 4V, I _C = - 1A | 25 | | |
| | | $V_{CE} = -4V, I_{C} = -3A$ | 10 | 50 | |
| V _{CE} (sat) | * Collector-Emitter Saturation Voltage | I _C = - 3, I _B = - 375mA | | -1.2 | V |
| V _{BE} (on) | * Base-Emitter ON Voltage | V _{CE} = - 4A, I _C = - 3A | | -1.8 | V |
| f _T | Current Gain Bandwidth Product | $V_{CE} = -10V, I_{C} = -500mA$ | 3 | | MHz |

* Pulse Test: PW≤300µs, Duty Cycle≤2%

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Typical Characteristics (Continued)

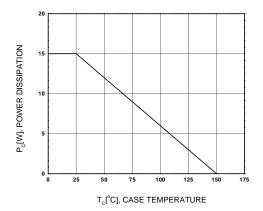
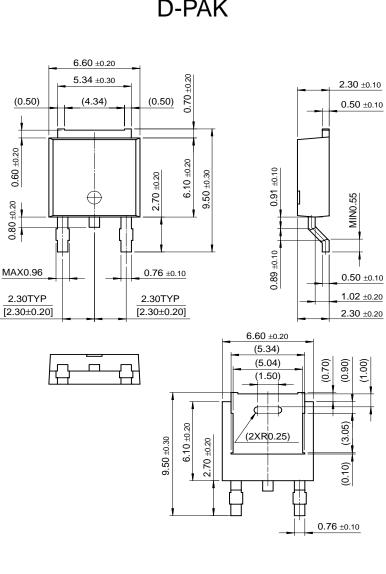


Figure 7. Power Derating

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Package Demensions

D-PAK



Dimensions in Millimeters

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