

SEMICONDUCTOR

# **MJD350**

## **High Voltage Power Transistors D-PAK for Surface Mount Applications**

- Lead Formed for Surface Mount Applications (No Suffix)
  Straight Lead (I-PAK, "- I" Suffix)



# **PNP Epitaxial Silicon Transistor**

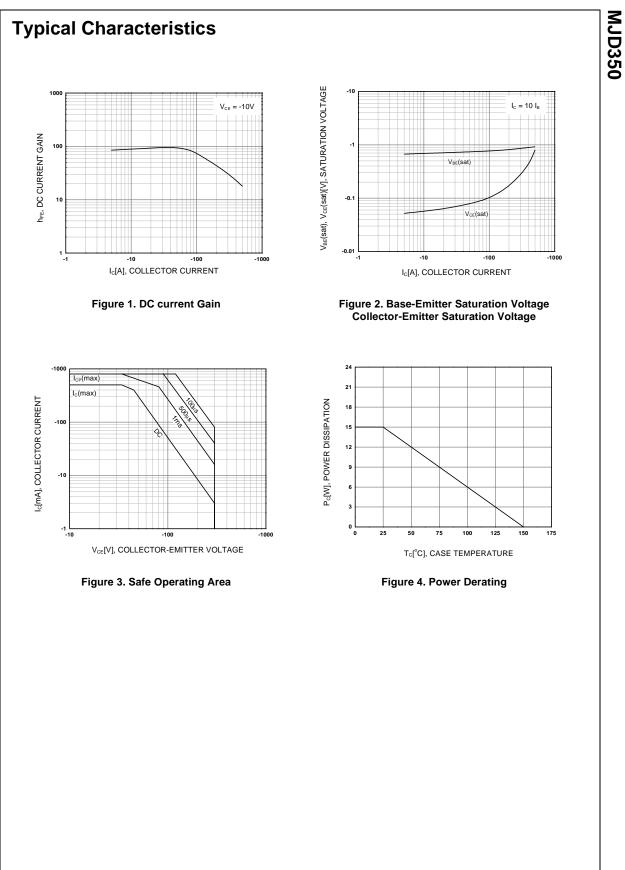
Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	- 300	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 300	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 3	V
I <sub>C</sub>	Collector Current (DC)	- 0.5	А
I <sub>CP</sub>	Collector Current (Pulse)	- 0.75	А
P <sub>C</sub>	Collector Dissipation ( $T_C = 25^{\circ}C$ )	15	W
	Collector Dissipation ( $T_a = 25^{\circ}C$ )	1.56	W
Tj	Junction Temperature	150	°C
Г <sub>STG</sub>	Storage Temperature	- 65 ~ 150	°C

## Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

## Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

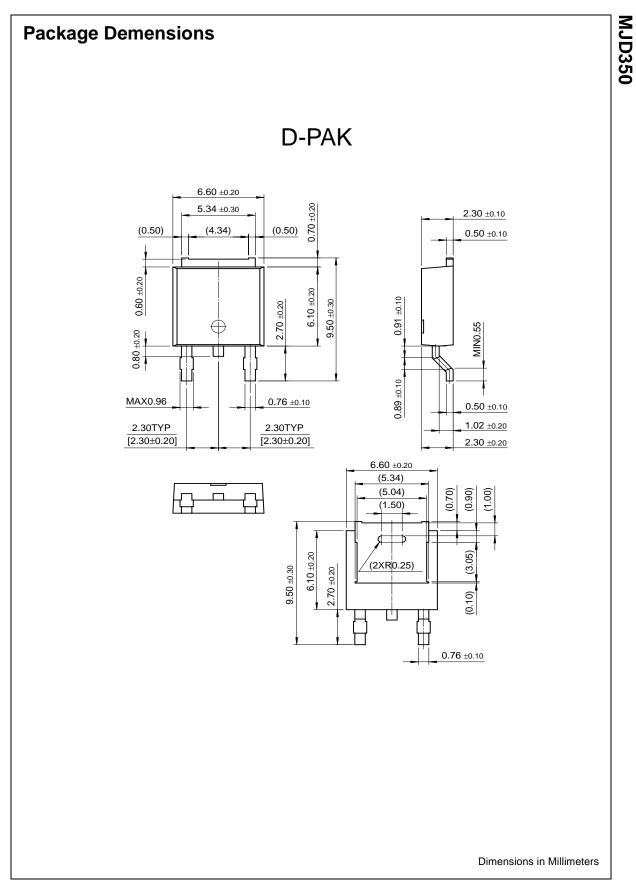
Symbol	Parameter	Test Condition	Min.	Max.	Units
V <sub>CEO</sub> (sus)	* Collector-Emitter Sustaining Voltage	$I_{\rm C} = 1 {\rm mA},  I_{\rm B} = 0$	-300		V
I <sub>CEO</sub>	Collector Cut-off Current	$V_{CB} = -300V, I_{E} = 0$		-0.1	mA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -3V, I_{C} = 0$		-0.1	mA
h <sub>FE</sub>	* DC Current Gain	$V_{CE} = -10V, I_{C} = -50mA$	30	240	

Pulse Test: PW≤300µs, Duty Cycle≤2%



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