





# **NPN Epitaxial Silicon Transistor**

Absolute Maximum	Ratings T <sub>C</sub> =25°C unless otherwise noted	b
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Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	200	V
V <sub>CEO</sub>	Collector-Emitter Voltage	150	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
Ic	Collector Current	2	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	25	W
Тј	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C
Electrica	Characteristics T <sub>C</sub> =25°C unless otherwise noted	A TE WWW.C	250.0

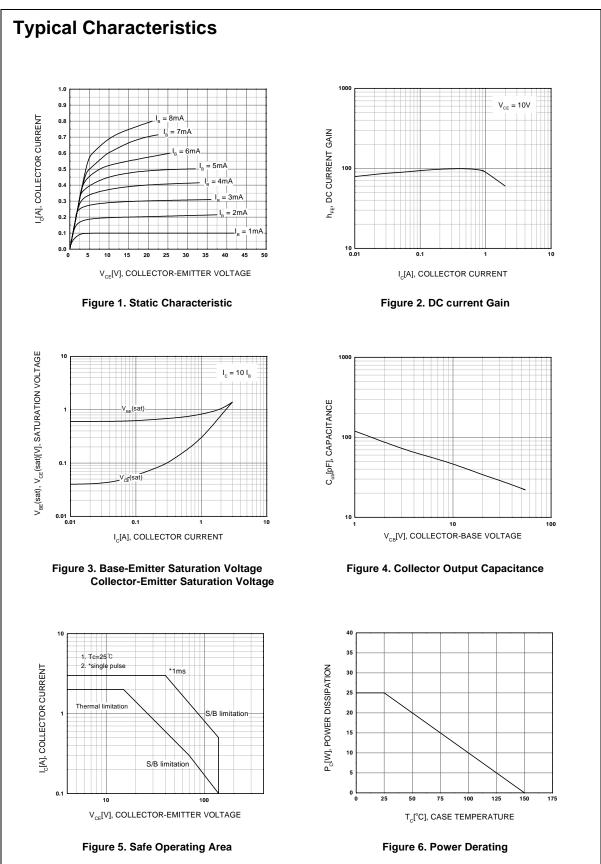
### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = 500uA, I <sub>E</sub> = 0	200			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0	150			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -500uA, I <sub>C</sub> = 0	5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = 150V, I <sub>E</sub> = 0			50	μA
h <sub>FE</sub>	DC Current Gain	$V_{CE} = 10V, I_{C} = 0.4A$	40		400	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA			1	V
<sup>f</sup> T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.4A$		5	10	MHz

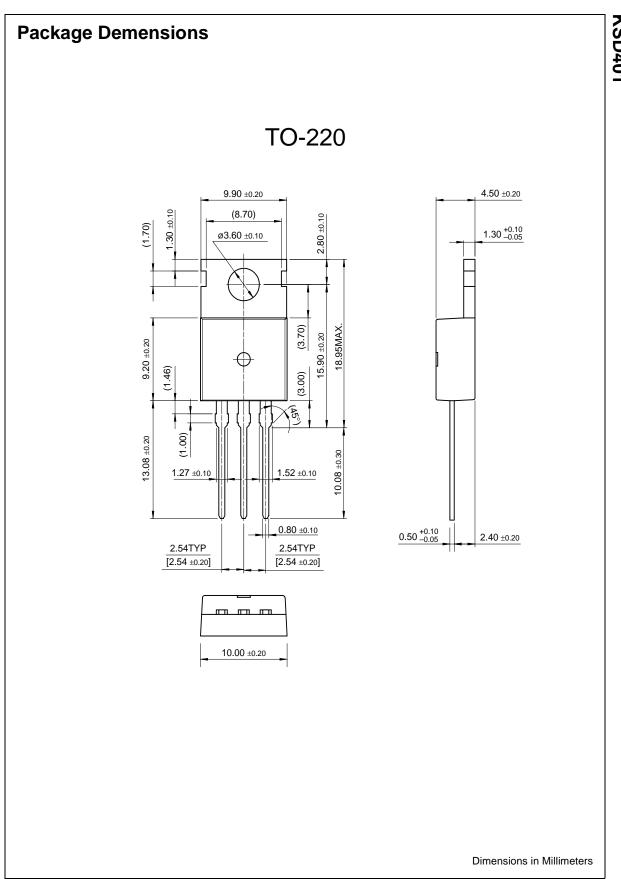
## h<sub>FF</sub> Classification

Classification	R	0	Y	G
h <sub>FE</sub>	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400
	- FARM			
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# KSD401



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