

ELECTRICAL CHARACTERISTICS (T_a = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	I _{CB0}			50	μA	V _{CB} = 150 V, I _E = 0
Emitter Cutoff Current	I _{EB0}			50	μA	V _{EB} = 4 V, I _C = 0
DC Current Gain	h _{FE} ***	40	100	200		V _{CE} = 10 V, I _C = 0.4 A
Collector Saturation Voltage	V _{CE(sat)} ***		0.2	1.0	V	I _C = 500 mA, I _B = 50 mA
Gain Bandwidth Product	f _r		10		MHz	V _{CE} = 10 V, I _E = 0.4 A

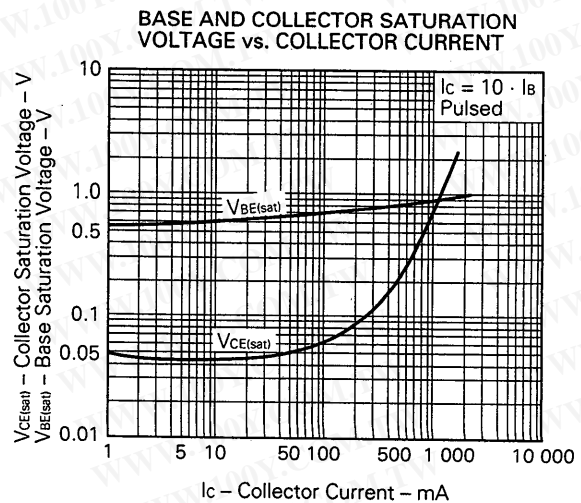
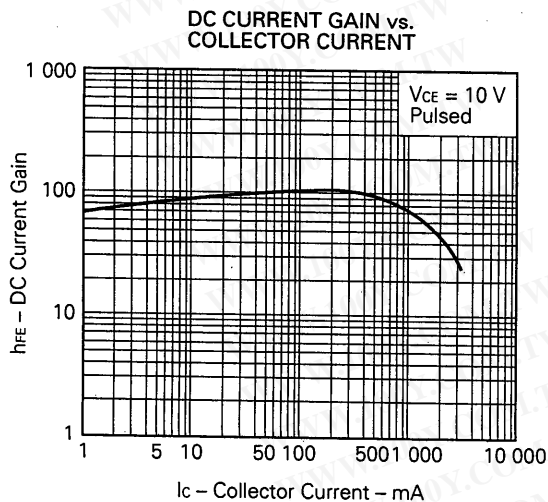
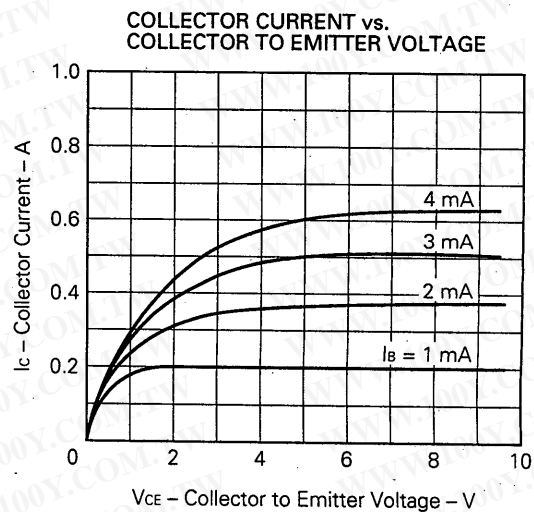
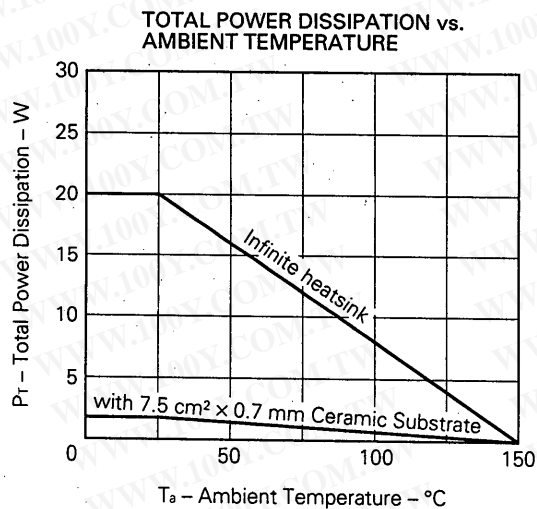
***Pulsed: PW ≤ 350 μs, Duty Cycle ≤ 2 %

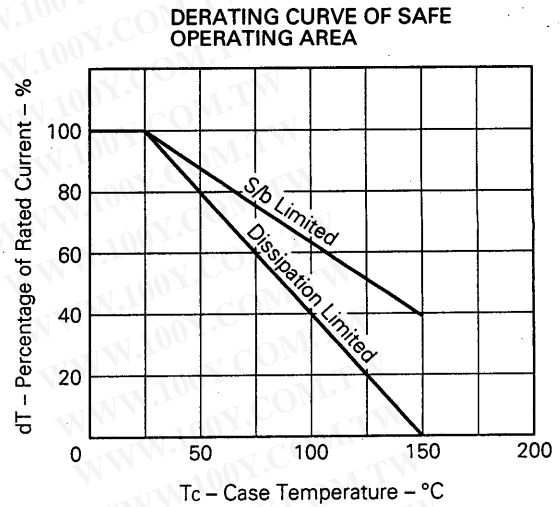
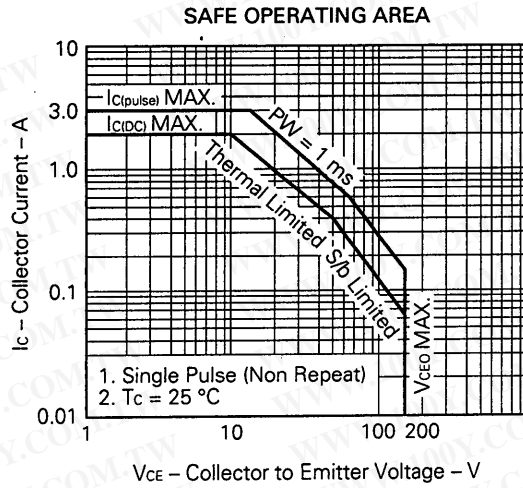
h_{FE} Classification

MARKING	M	L	K
h _{FE}	40 to 80	60 to 120	100 to 200

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TYPICAL CHARACTERISTICS (T_a = 25 °C)





Reference

Application note name	No.
Quality control of NEC semiconductors devices.	TEI-1202
Quality control guide of semiconductors devices.	MEI-1202
Assembly manual of semiconductors devices.	IEI-1207
Design of Push-Pull Type Switching Regulators (Basic)	TEB-1002
Design of Push-Pull Type Switching Regulators (Applications)	TEB-1003
Optimum Base Drive Conditions of Switching Power Transistors	TEB-1014

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The devices listed in this document are not suitable for use in aerospace equipment, submarine cables, nuclear reactor control systems and life support systems. If customers intend to use NEC devices for above applications or they intend to use "Standard" quality grade NEC devices for applications not intended by NEC, please contact our sales people in advance.

Application examples recommended by NEC Corporation.

Standard: Computer, Office equipment, Communication equipment, Test and Measurement equipment, Machine tools, Industrial robots, Audio and Visual equipment, Other consumer products, etc.

Special: Automotive and Transportation equipment, Traffic control systems, Antidisaster systems, Anticrime systems, etc.