

## **Electrical Characteristics (Ta = 25°C)**

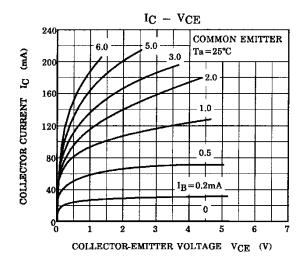
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	ICBO	V <sub>CB</sub> = 60 V, I <sub>E</sub> = 0 A	_	_	0.1	μА
Emitter cut-off current	IEBO	V <sub>EB</sub> = 5 V, I <sub>C</sub> = 0 A	_	_	0.1	μА
DC current gain	hFE (Note)	VCE = 6 V, IC = 2 mA	70	_	700	-
Collector-emitter saturation voltage	VCE (sat)	Ic = 100 mA, I <sub>B</sub> = 10 mA	_	0.1	0.25	V
Transition frequency	f⊤	VCE = 10 V, IC = 1 mA	80	_	_	MHz
Collector output capacitance	Cob	V <sub>CB</sub> = 10 V, I <sub>E</sub> = 0 A, f = 1 MHz	_	2.0	3.5	pF
Noise figure	NF	$\begin{split} &V_{CE}=6~V,~I_{C}=0.1~mA,~f=1~kHz,\\ &R_{g}=10~k\Omega \end{split}$	_	1.0	10	dB

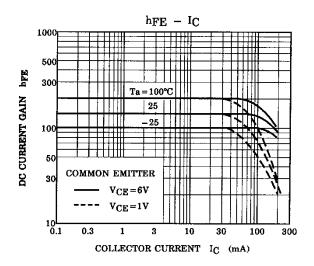
Note: hFE classification O (O): 70 to 140, Y (Y): 120 to 240, GR (G): 200 to 400, BL (L): 350 to 700

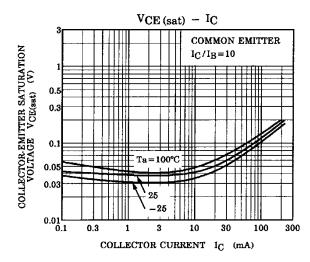
( ) marking symbol

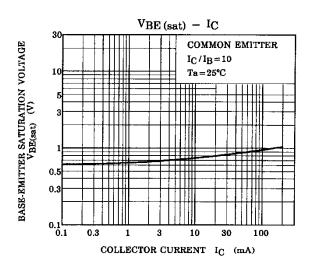


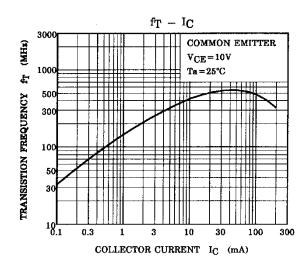
## **Characteristics Curves**

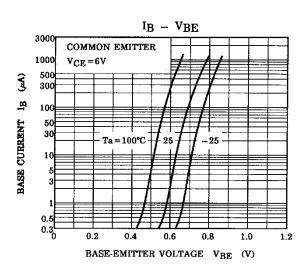






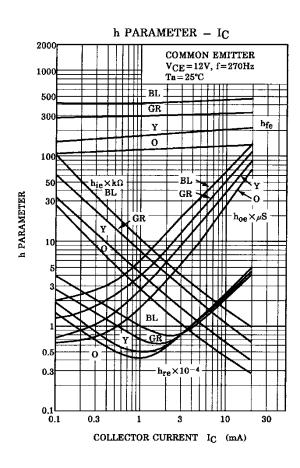


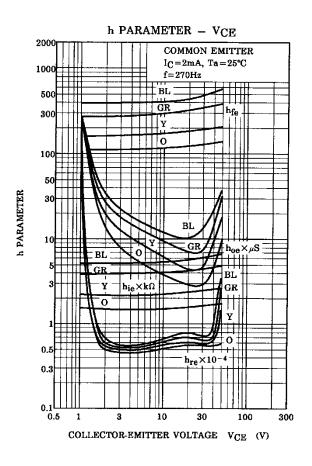


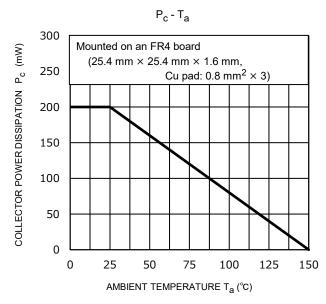


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The above characteristics curves are presented for reference only and not guaranteed by production test, unless otherwise noted.



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