

Transistor

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CBO}	20	–	–	V	I _C =50μA
Collector-emitter breakdown voltage	BV _{CEO}	20	–	–	V	I _C =1mA
Emitter-base breakdown voltage	BV _{EBO}	12	–	–	V	I _E =50μA
Collector cutoff current	I _{CBO}	–	–	0.5	μA	V _{CB} =20V
Emitter cutoff current	I _{EBO}	–	–	0.5	μA	V _{EB} =12V
Collector-emitter saturation voltage	V _{CE(sat)}	–	40	150	mV	I _C / I _B =50mA / 2.5mA
DC current transfer ratio	h _{FE}	820	–	2700	–	V _{CE} =5V, I _C =50mA
Input resistance	R ₁	3.29	4.7	6.11	kΩ	–
Transition frequency	f _T	–	150	–	MHz	V _{CE} =10V, I _E =–50mA, f=100MHz *
Output "ON" resistance	R _{on}	–	0.55	–	Ω	V _I =5V, R _L =1kΩ, f=1KHz

*Transition frequency of the device.

●Packaging specifications and h_{FE}

Type	Package	SMT6
	Packaging type	Taping
	Code	T110
	Basic ordering unit (pieces)	3000
IMH23		○

●Electrical characteristic curves

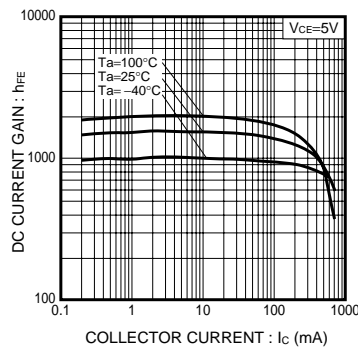


Fig.1 DC Current Gain vs. Collector Current

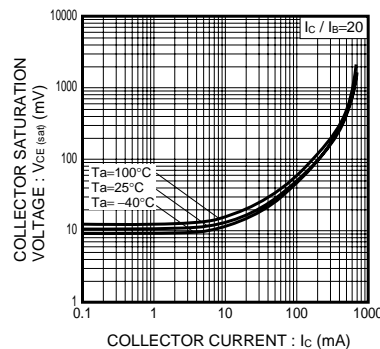


Fig.2 Collector-Emitter Saturation Voltage vs. Collector Current

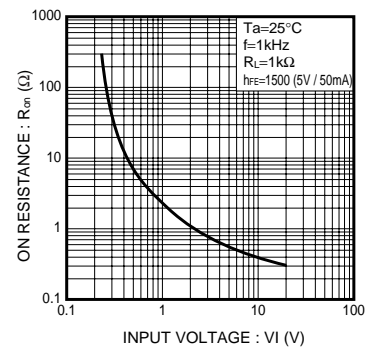


Fig.3 "ON" resistance vs. Input Voltage

●R_{on} measurement circuit

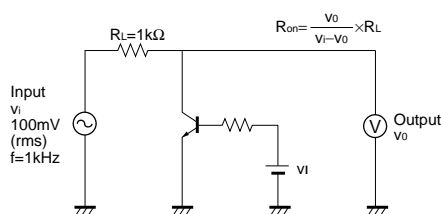


Fig.4 Output "ON" resistance (R_{on}) measurement circuit

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