

Transistor

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	-30	-	-	V	I _c =-100μA
Collector-emitter breakdown voltage	BV _{CEO}	-30	-	-	V	I _c =-1mA
Emitter-base breakdown voltage	BV _{EB0}	-6	-	-	V	I _E =-100μA
Collector cut-off current	I _{CB0}	-	-	-1.0	μA	V _{CB} =-20V
Emitter cut-off current	I _{EB0}	-	-	-1.0	μA	V _{EB} =-4V
Collector-emitter saturation voltage	V _{CE(sat)}	-	-150	-300	mV	I _c =-500mA, I _B =-50mA
DC current gain	h _{FE}	120	-	390	-	V _{CE} =-2V, I _c =-100mA
Transition frequency	f _r	-	350	-	MHz	V _{CE} =-10V, I _E =100mA, f=10MHz
Collector output capacitance	C _{ob}	-	10	-	pF	V _{CB} =-10V, I _E =0mA, f=1MHz
Turn-on time	T _{on}	-	30	-	ns	I _c =-1.0A
Storage time	T _{stg}	-	100	-	ns	I _{B1} =-100mA I _{B2} =100mA
Fall time	T _f	-	20	-	ns	V _{CC} =-25V

●h_{FE} RANK

Q	R
120-270	180-390

●Electrical characteristic curves

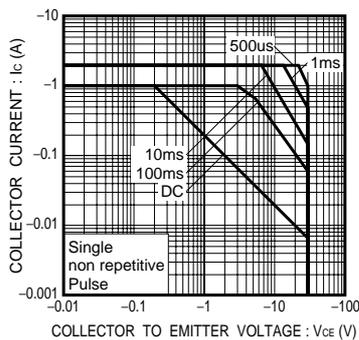


Fig.1 Safe Operating Area

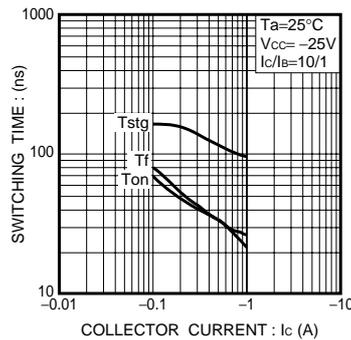


Fig.2 Switching Time

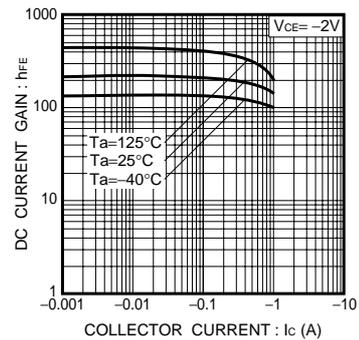


Fig.3 DC Current Gain vs. Collector Current (I)

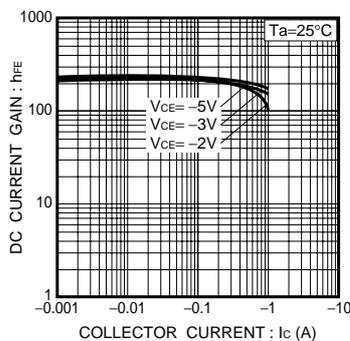


Fig.4 DC Current Gain vs. Collector Current (II)

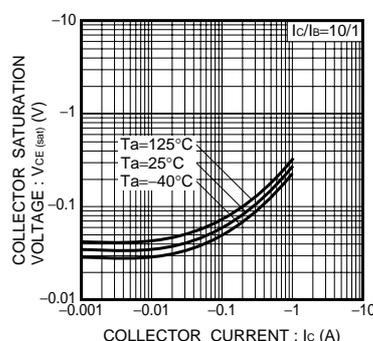


Fig.5 Collector-Emitter Saturation Voltage vs. Collector Current (I)

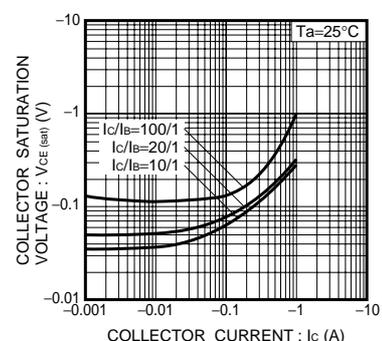


Fig.6 Collector-Emitter Saturation Voltage vs. Collector Current (II)

Transistor

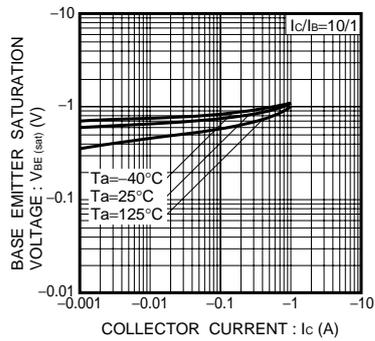


Fig.7 Base-Emitter Saturation Voltage vs. Collector Current

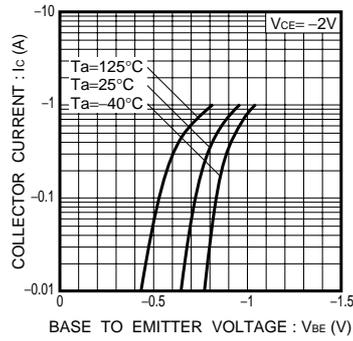


Fig.8 Grounded Emitter Propagation Characteristics

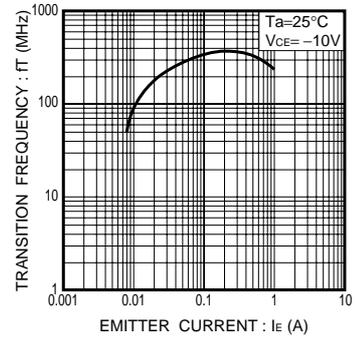


Fig.9 Transition Frequency

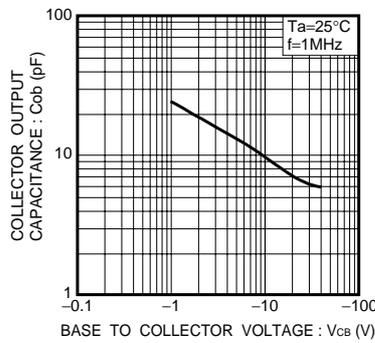
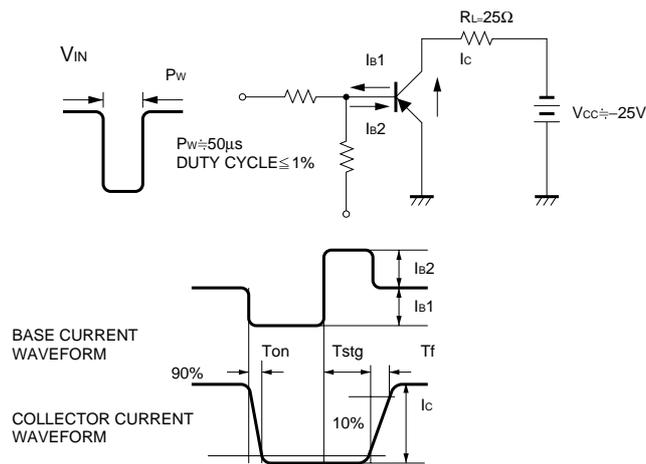


Fig.10 Collector Output Capacitance

●Switching characteristics measurement circuits



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT category](#):

Click to view products by [ROHM manufacturer](#):

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [BC546/116](#) [BC557/116](#) [BSW67A](#) [NTE158](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE63](#) [C4460](#)
[2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA2126-E](#) [2SB1204S-TL-E](#) [2SD2150T100R](#) [SP000011176](#) [FMMTA92QTA](#) [2N2369ADCSM](#)
[2N5769](#) [2SC2412KT146S](#) [2SC5490A-TL-H](#) [2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#)
[US6T6TR](#) [NJL0281DG](#) [732314D](#) [CMXT3906 TR](#) [CPH3121-TL-E](#) [CPH6021-TL-H](#) [873787E](#) [IMZ2AT108](#) [UMX21NTR](#) [MCH6102-TL-E](#)
[FP204-TL-E](#) [NJL0302DG](#) [2N3583](#) [2SA1434-TB-E](#) [2SC3143-4-TB-E](#) [2SD1621S-TD-E](#) [NTE103](#) [30A02MH-TL-E](#) [NSV40301MZ4T1G](#)
[NTE101](#) [NTE13](#) [NTE15](#)