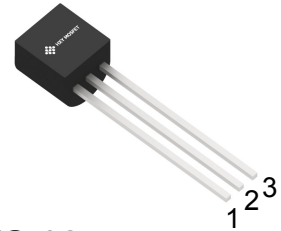




Features

- General Purpose Switching Application

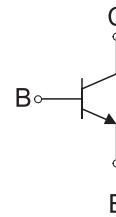
1. EMITTER
2. BASE
3. COLLECTOR



TO-92

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2N5551TA	TO-92	2N5551	1000



Maximum Ratings (Ta=25°C unless otherwise noted)

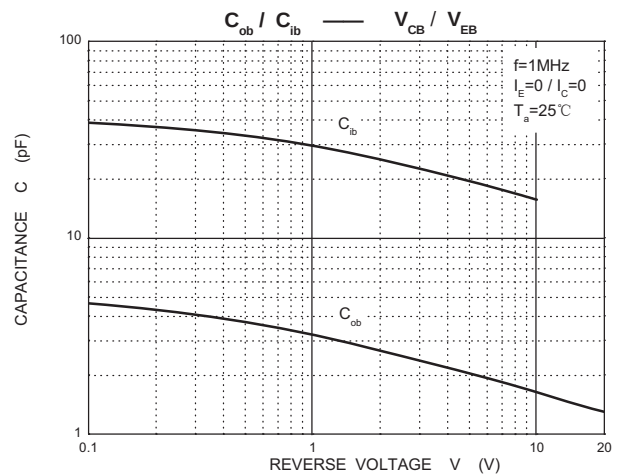
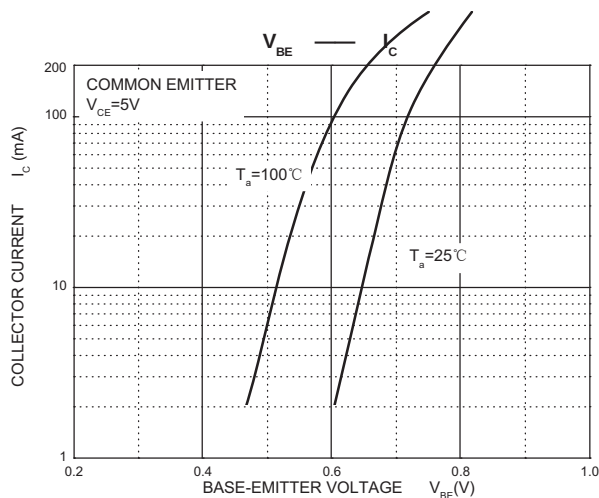
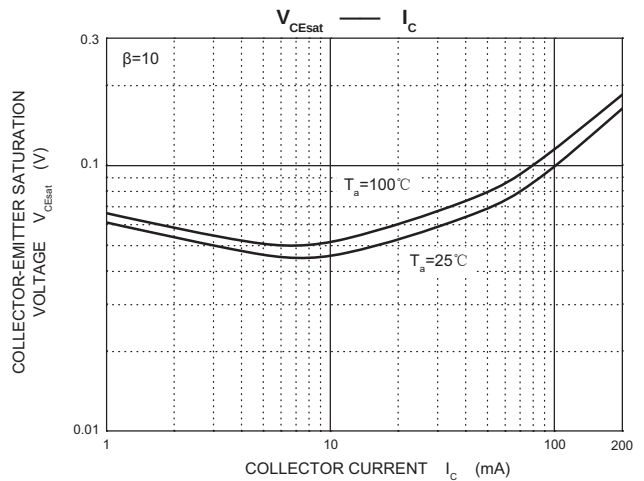
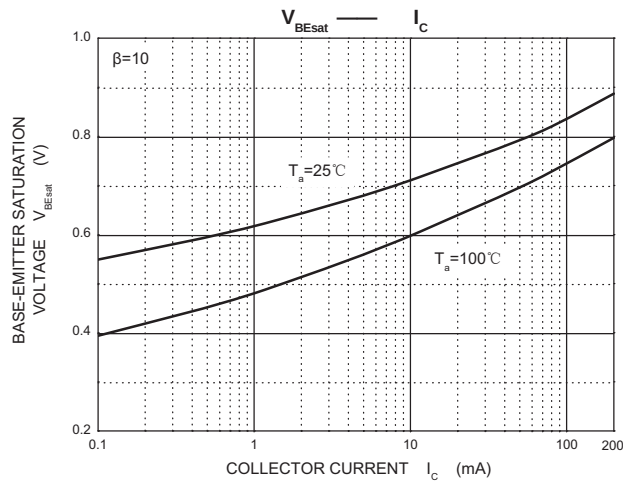
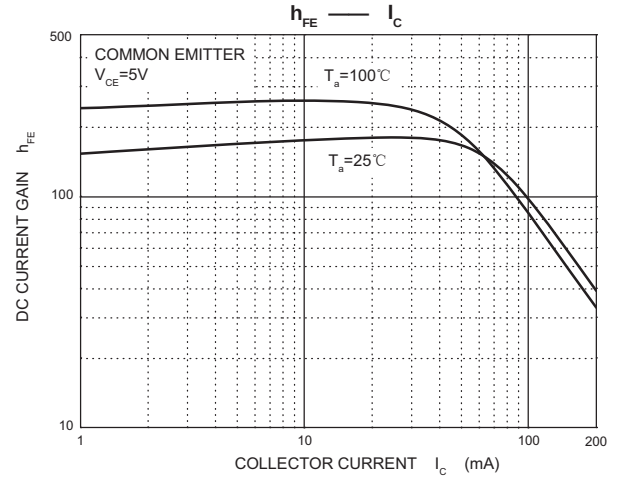
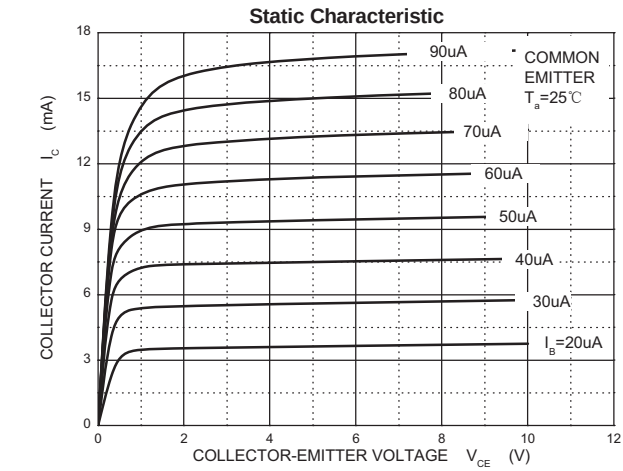
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	180	V
V _{CEO}	Collector-Emitter Voltage	160	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	0.6	A
P _C	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	200	°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

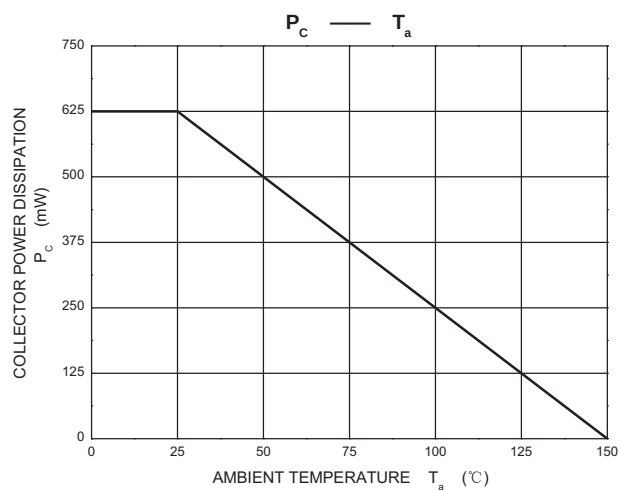
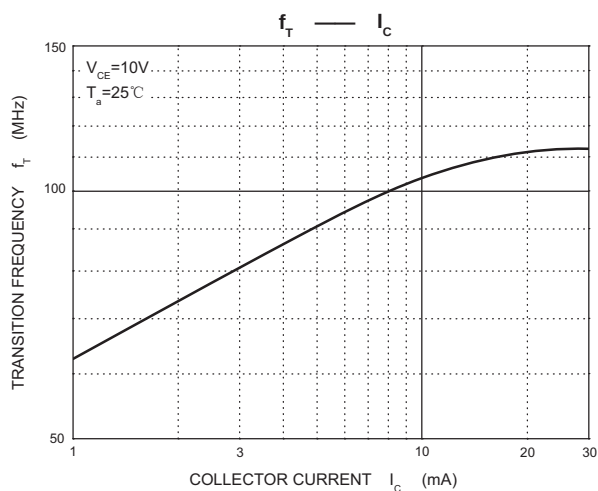
Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	180			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =120V, I _E =0			50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			50	nA
DC current gain	h _{FE(1)}	V _{CE} =5V, I _C =1mA	80			
	h _{FE(2)}	V _{CE} =5V, I _C =10mA	100		200	
	h _{FE(3)}	V _{CE} =5V, I _C =50mA	50			
Collector-emitter saturation voltage	V _{CE(sat)} (1)	I _C =10mA, I _B =1mA			0.15	V
	V _{CE(sat)} (2)	I _C =50mA, I _B =5mA			0.2	V
Base-emitter saturation voltage	V _{BE(sat)} (1)	I _C =10mA, I _B =1mA			1	V
	V _{BE(sat)} (2)	I _C =50mA, I _B =5mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			6	pF
Emitter input capacitance	C _{ib}	V _{BE} =0.5V, I _C =0, f=1MHz			20	pF
Transition frequency	f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100		300	MHz

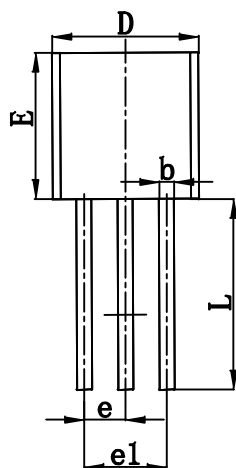
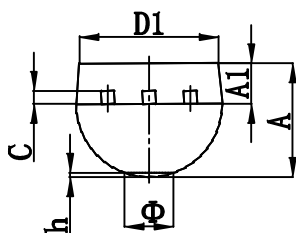


Typical Characteristics





TO-92 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.300	4.700	0.169	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015



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