Features

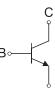
• General Purpose Switching Application



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
NTE194	TO-92	2N5551	1000





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

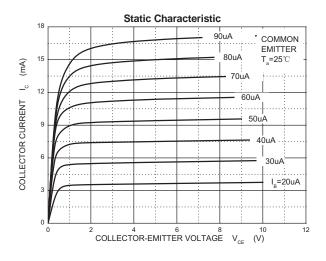
aximam ratings (ra 200 amoto otherwise noted)			
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	0.6	А
Pc	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

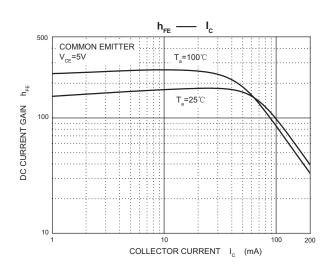
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

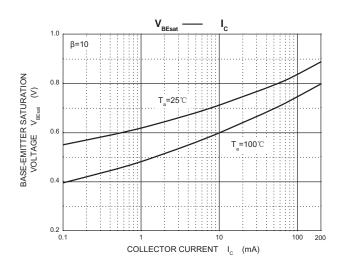
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	180			V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C =1mA,I _B =0	160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =120V,I _E =0			50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			50	nA
	h _{FE(1)}	V _{CE} =5V, I _C =1mA	80			
DC current gain	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
Collector-enfitter Saturation Voltage	V _{CE(sat) (2)}	I _C =50mA,I _B =5mA			0.2	V
December of matical calls	V _{BE (sat) (1)}	I _C =10mA,I _B =1mA			1	V
Base-emitter saturation voltage	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⊤	Vce=10V,lc=10mA, f=100MHz	100		300	MHz

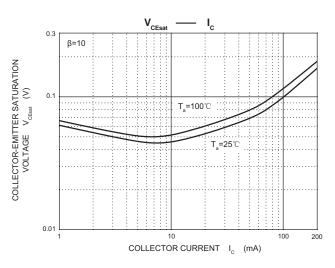


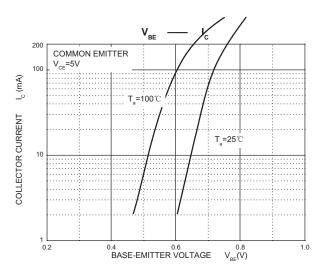
Typical Characteristics

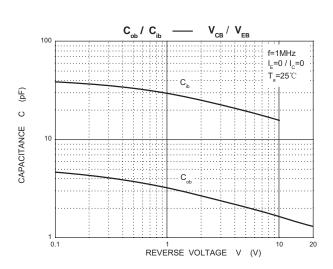


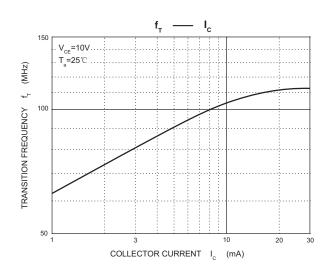


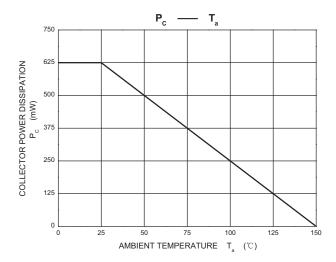




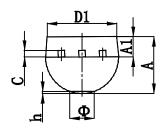


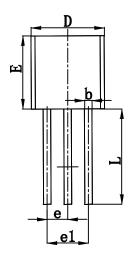






TO-92 Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	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	
е	1.270 TYP		0.050 TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	



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