

CXT5551

NPN Plastic-Encapsulate Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power Dissipation: $P_{CM}=0.5W$ ($T_{amb}=25^{\circ}C$)
- Collector Current: $I_{CM}=0.6A$
- Collector-Base Voltage: $V_{(BR)CBO}=180V$
- Marking : 1G6
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Value	Unit
V_{CEO}	Collector-Emitter Voltage	160	V
V_{CBO}	Collector-Base Voltage	180	V
V_{EBO}	Emitter-Base Voltage	6.0	V
I_C	Collector Current DC	0.6	A
P_C	Collector Power Dissipation	0.5	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}C$

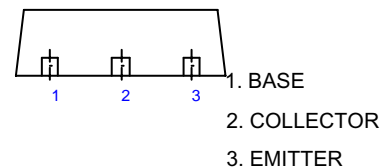
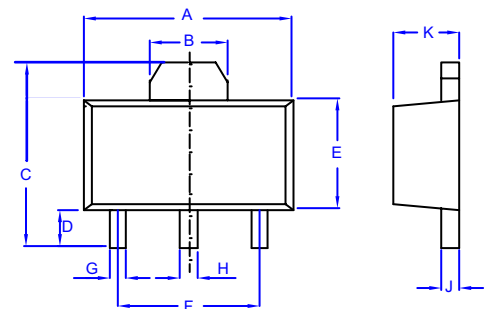
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

V_{CBO}	Collector-Base Voltage ($I_C=100\mu A$, $I_E=0$)	180	---	---	Vdc
V_{CEO}	Collector-Emitter Voltage ($I_C=1mA$, $I_B=0$)	160	---	---	Vdc
V_{EBO}	Emitter-Base Voltage ($I_E=10\mu A$, $I_C=0$)	6.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=120V$, $I_E=0$)	---	---	50	nAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=4.0V$, $I_C=0$)	---	---	50	nAdc
$h_{FE(1)}$	DC Current Gain ($V_{CE}=5.0V$, $I_C=1mA$)	80	---	---	---
$h_{FE(2)}$	DC Current Gain ($V_{CE}=5.0V$, $I_C=10mA$)	80	---	300	---
$h_{FE(3)}$	DC Current Gain ($V_{CE}=5.0V$, $I_C=50mA$)	30	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=10mA$, $I_B=1mA$)	---	---	0.15	Vdc
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=50mA$, $I_B=5mA$)	---	---	0.2	Vdc
$V_{BE(sat)}$	Base-Emitter Voltage ($I_C=10mA$, $I_B=1mA$)	---	---	1	Vdc
$V_{BE(sat)}$	Base-Emitter Voltage ($I_C=50mA$, $I_B=5mA$)	---	---	1	Vdc
f_T	Transition Frequency ($V_{CE}=10V$, $I_C=10mA$, $f=100MHz$)	100	---	---	MHz
C_{ob}	Collector output capacitance ($V_{CB}=10V$, $I_E=0$, $f=1MHz$)	---	---	6	pF
NF	Noise figure ($V_{CE}=5V$, $I_C=0.2mA$, $f=10MHz-15.7KHz$, $R_s=10\Omega$)	---	---	8	dB

SOT-89



DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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