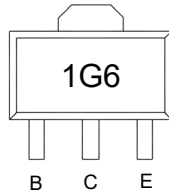
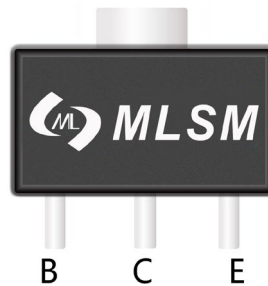


Features

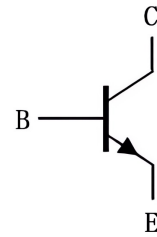
- Switching and amplification in high voltage
Applications such as telephony
- Low current(max. 600mA)
- High voltage(max.180v)



Marking and pin assignment



SOT-89-3L top view



Schematic diagram



Halogen-Free

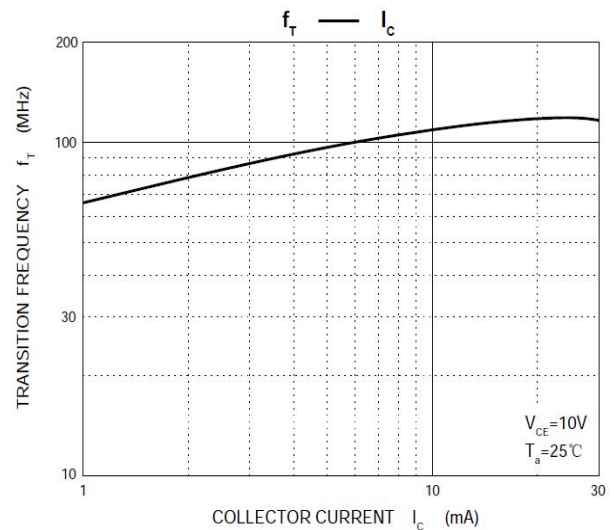
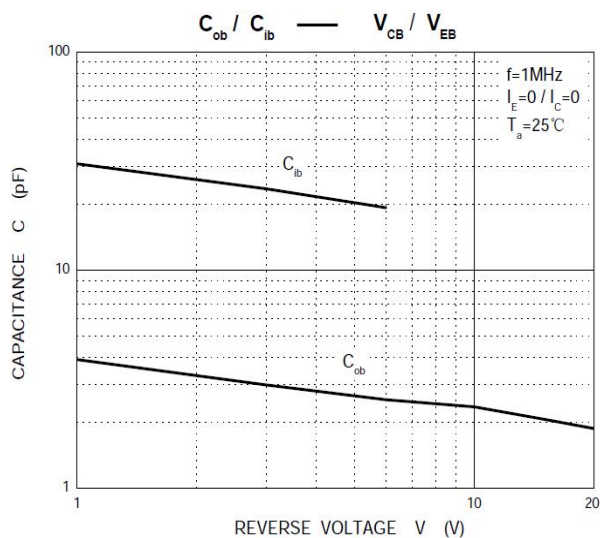
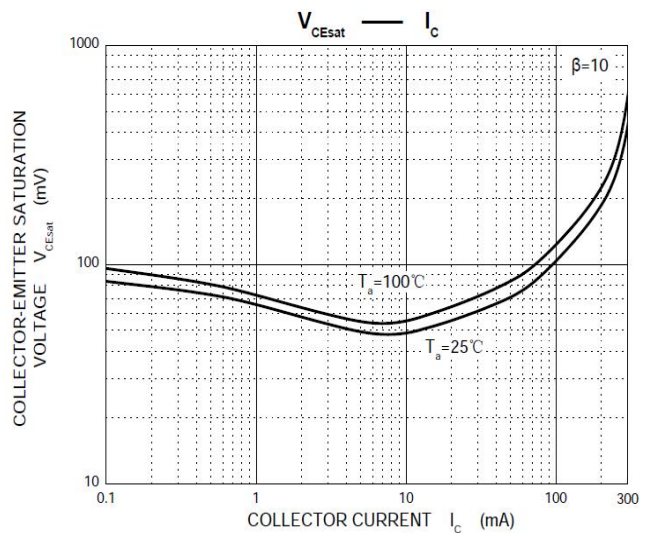
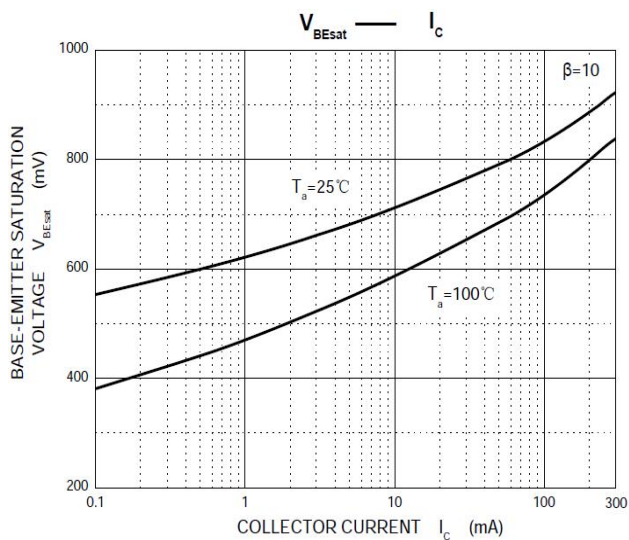
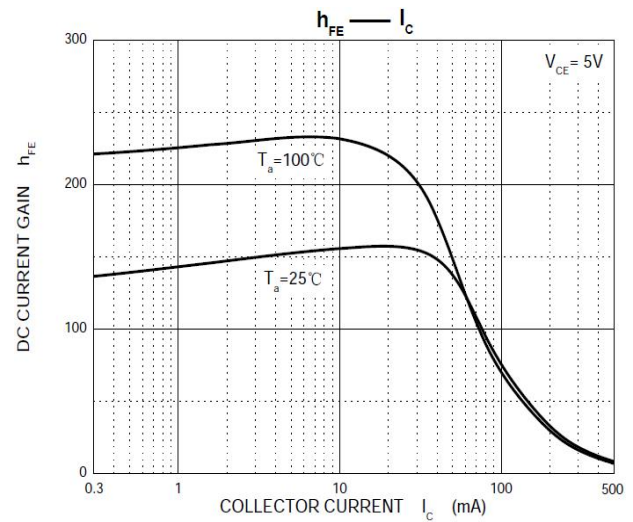
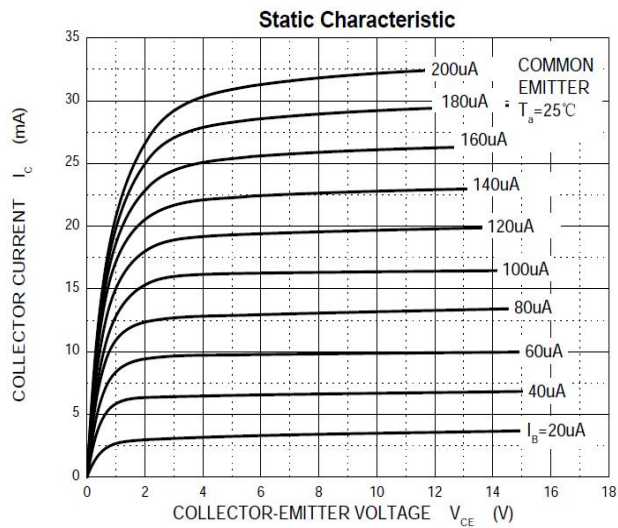
Maximum Ratings (Ta=25°C unless otherwise noted)

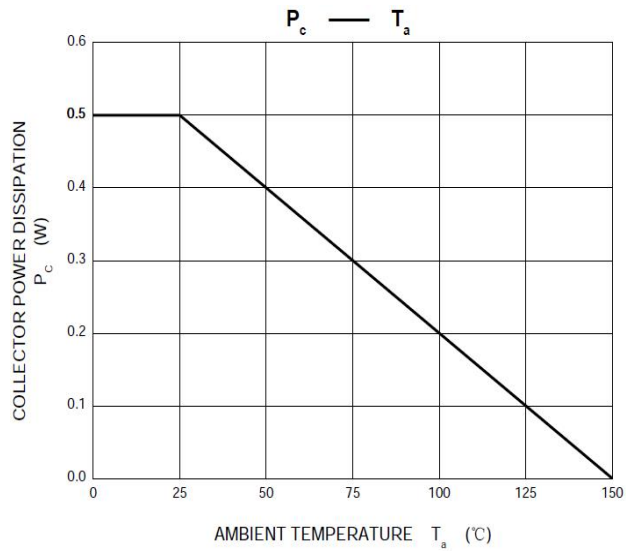
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	6	V
I_c	Collector Current	0.6	A
P_c	Collector Power Dissipation	0.5	W
T_J, T_{STG}	Operating and Storage Temperature Range	-55~+150	°C

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

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_c=100\mu A, I_E=0$	180	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_c=1mA, I_B=0$	160	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=10\mu A, I_C=0$	6	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=120V, I_E=0$	--	--	50	nA
I_{EBO}	Emitter cut-off current	$V_{EB}=4V, I_C=0$	--	--	50	nA
h_{FE1}	DC current gain	$V_{CE}=5V, I_C=1mA$	80	--	--	
h_{FE2}		$V_{CE}=5V, I_C=10mA$	100	--	300	
h_{FE3}		$V_{CE}=5V, I_C=50mA$	30	--	--	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=10mA, I_B=1mA$	--	--	0.15	V
		$I_C=50mA, I_B=5mA$	--	--	0.2	V
$V_{BE(sat)}$	Base-emitter voltage	$I_C=10mA, I_B=1mA$	--	--	1	V
		$I_C=50mA, I_B=5mA$	--	--	1	V
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	$V_{CE}=5V, I_C=0.2mA, R_s=100\Omega, f=10Hz \text{ to } 15.7kHz$	--	--	8	dB

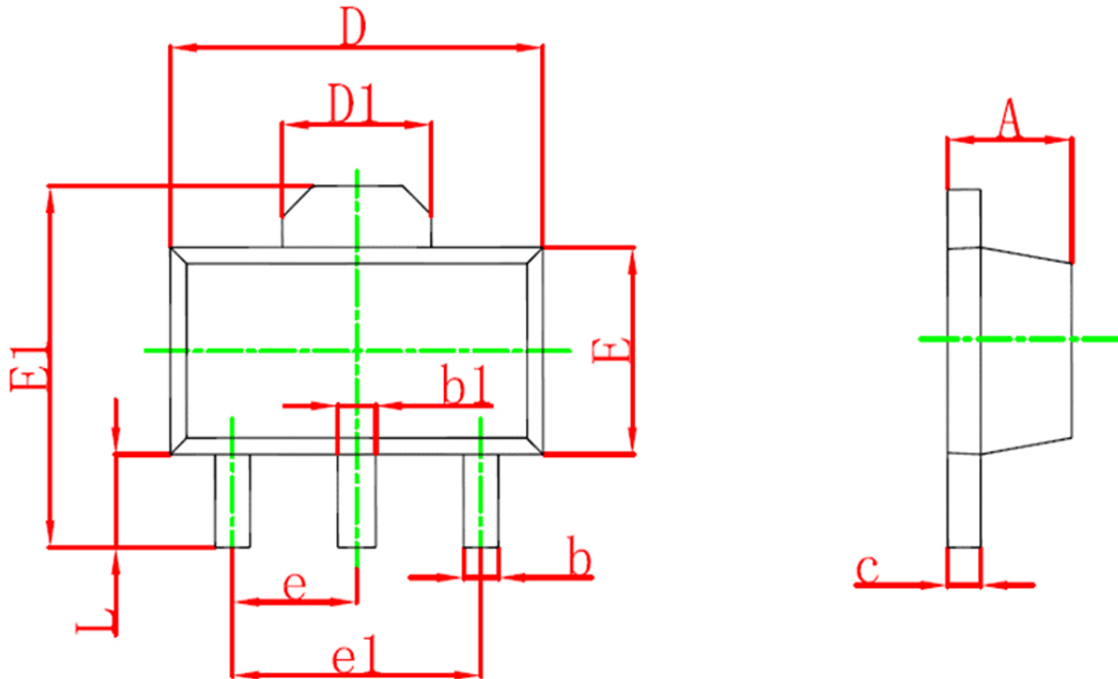
Typical Characteristics




Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
CXT5551	SOT-89-3L	1G6	1,000	10,000	40,000	7"reel

SOT-89-3L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions in Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF		0.061 REF	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP		0.060 TYP	
e1	3.000 TYP		0.118 TYP	
L	0.900	1.200	0.035	0.047