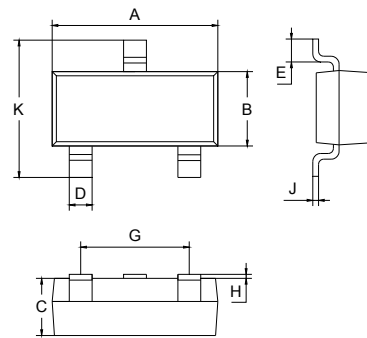


### FEATURES

- Epitaxial planar die construction.
- Complementary PNP type available (MMBT5401).
- Also available in lead free version.

### APPLICATIONS

- Ideal for medium power amplification and switching.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

### ORDERING INFORMATION

Type No.	Marking	Package Code
MMBT5551	G1	SOT-23

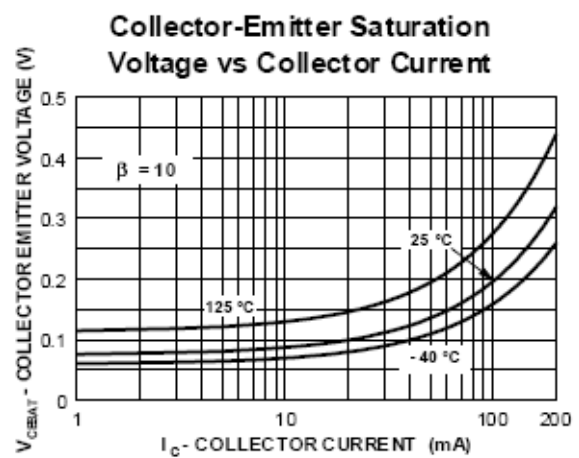
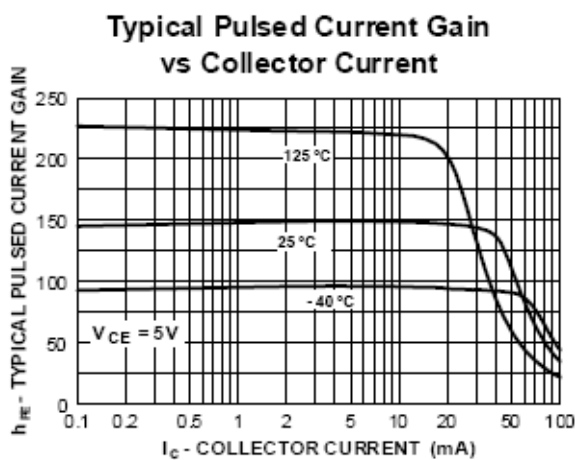
### MAXIMUM RATING @ Ta=25°C unless otherwise specified

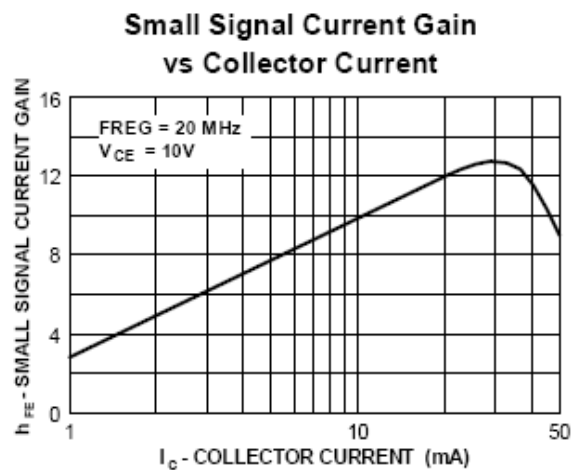
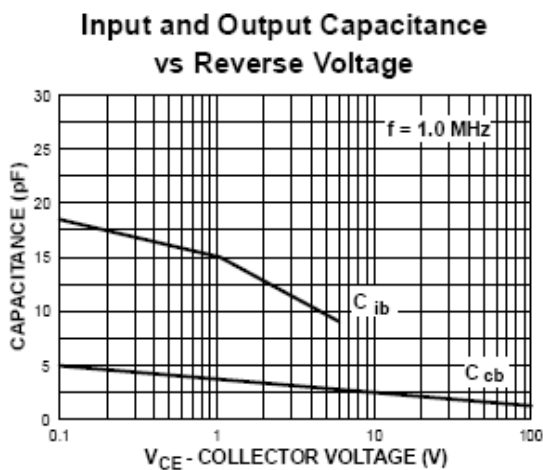
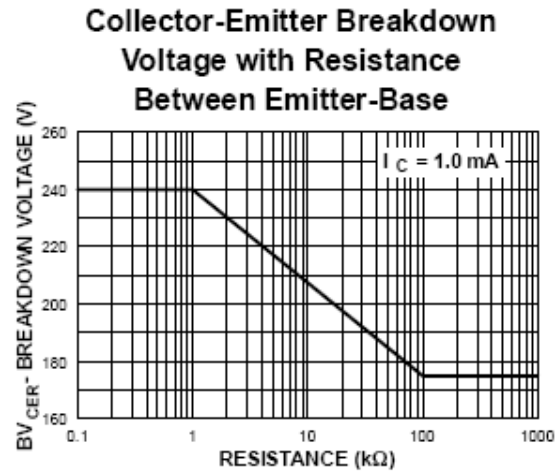
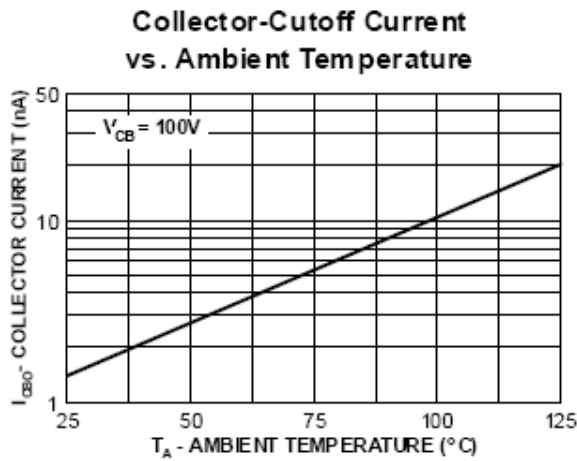
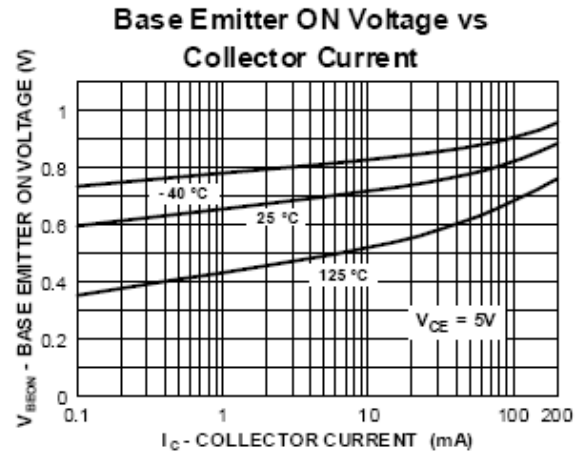
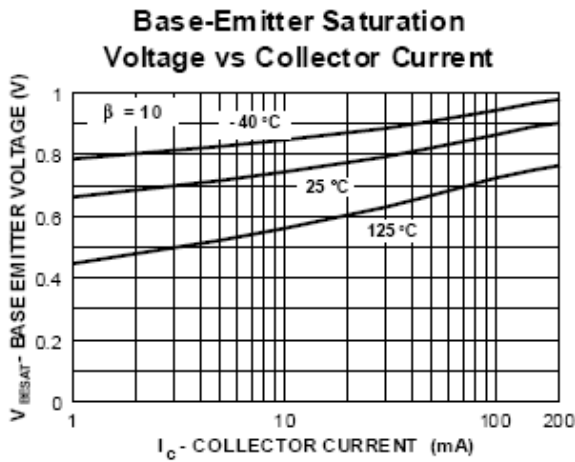
Symbol	Parameter	Value	UNIT
V <sub>CB0</sub>	collector-base voltage	180	V
V <sub>CEO</sub>	collector-emitter voltage	160	V
V <sub>EBO</sub>	emitter-base voltage	6	V
I <sub>C</sub>	collector current (DC)	0.6	A
P <sub>C</sub>	Collector dissipation	0.35	W
R <sub>θJA</sub>	Thermal resistance, Junction to ambient	357	°C/W
T <sub>j</sub> , T <sub>stg</sub>	junction and storage temperature	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	180		
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=0.1mA, I_B=0$	160		
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=10\mu A, I_C=0$	6		
$I_{CBO}$	collector cut-off current	$I_E = 0; V_{CB} = 120V$	-	50	nA
$I_{EBO}$	emitter cut-off current	$I_C = 0; V_{EB} = 4V$	-	50	nA
$h_{FE}$	DC current gain	$V_{CE} = 5V; I_C = 1mA$ $V_{CE} = 5V; I_C = 10mA$ $V_{CE} = 5V; I_C = 50mA$	80 100 30	- 300 -	
$V_{CE(sat)}$	collector-emitter saturation voltage	$I_C = 10mA; I_B=1mA$ $I_C = 50mA; I_B = 5mA$	-	0.15 0.2	V
$V_{BE(sat)}$	base-emitter saturation voltage	$I_C=10mA; I_B=1mA$ $I_C=50mA; I_B=5mA$	-	1 1	V
$f_T$	transition frequency	$I_C=10mA; V_{CB}=10V;$ $f=100MHz$	100	300	MHz
$C_{obo}$	Output capacitance	$I_E=10mA; V_{CE} = 10V;$ $f=1.0MHz$		6.0	pF

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





Device	Package	Shipping
MMBT5551	SOT-23	3000/Tape&Reel

## 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 [LGE manufacturer](#):*

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MJ15024/WS](#) [MJ15025/WS](#) [BC546/116](#) [BC556/FSC](#) [BC557/116](#) [BSW67A](#) [HN7G01FU-A\(T5L,F,T](#)  
[NJVMJD148T4G](#) [NSVMMBT6520LT1G](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE2353](#) [NTE316](#) [IMX9T110](#) [NTE63](#) [NTE65](#)  
[C4460](#) [SBC846BLT3G](#) [2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA1727TLP](#) [2SA2126-E](#) [2SB1202T-TL-E](#) [2SB1204S-TL-E](#) [2SC5488A-](#)  
[TL-H](#) [2SD2150T100R](#) [SP000011176](#) [FMC5AT148](#) [2N2369ADCSM](#) [2SB1202S-TL-E](#) [2SC2412KT146S](#) [2SC4618TLN](#) [2SC5490A-TL-H](#)  
[2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [BC557B](#) [TTC012\(Q\)](#) [BULD128DT4](#) [JANTX2N3810](#)  
[Jantx2N5416](#) [US6T6TR](#) [KSF350](#) [068071B](#)