

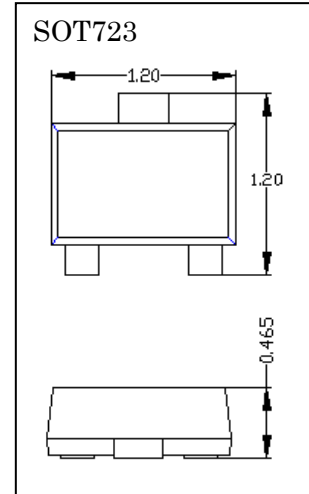
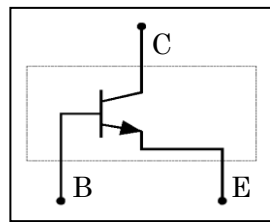
## DATA SHEET

### 2SC5658

- ◇ Small Outline Surface Mount Package
- ◇ RoHS Compliant / Green EMC

Device Marking Code	
2SC5658	BQ, BR, BS

Equivalent Circuit



### Maximum Ratings (Ta=25°C Unless Otherwise Noted)

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	60	V
$V_{CEO}$	Collector-Emitter Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current	150	mA
$P_C$	Collector Power Dissipation	100	mW
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55~+150	°C

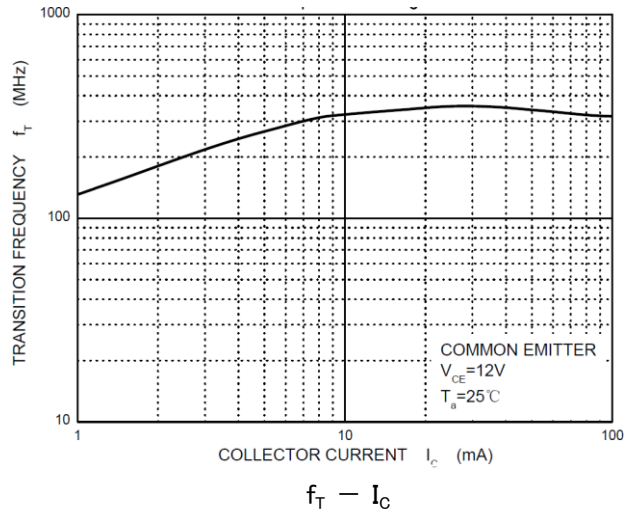
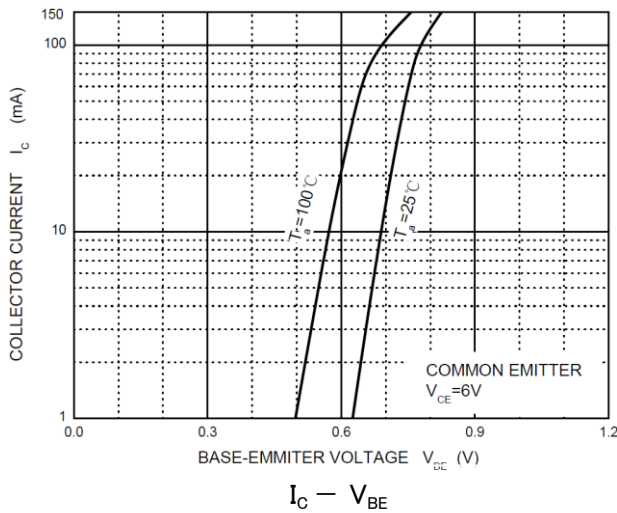
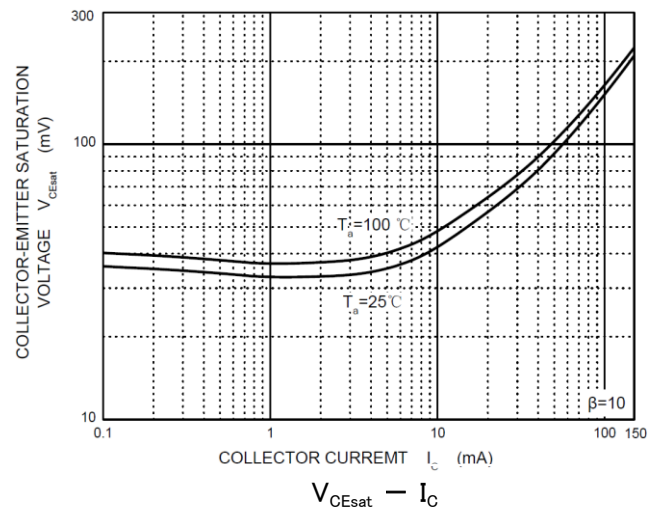
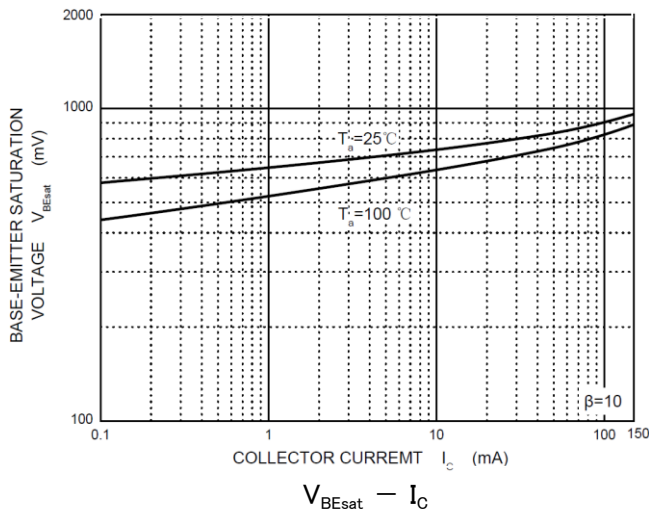
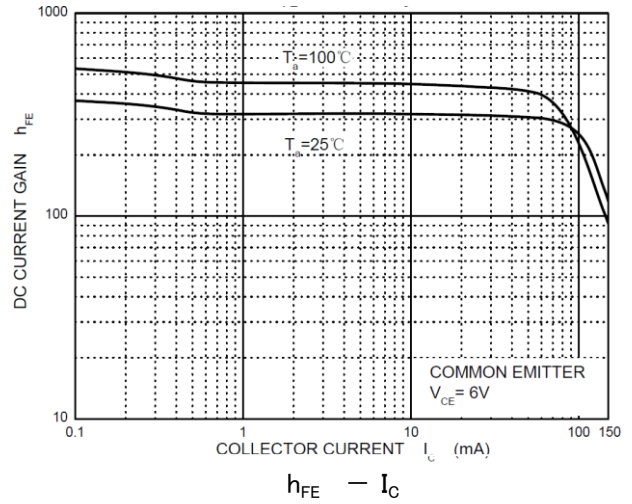
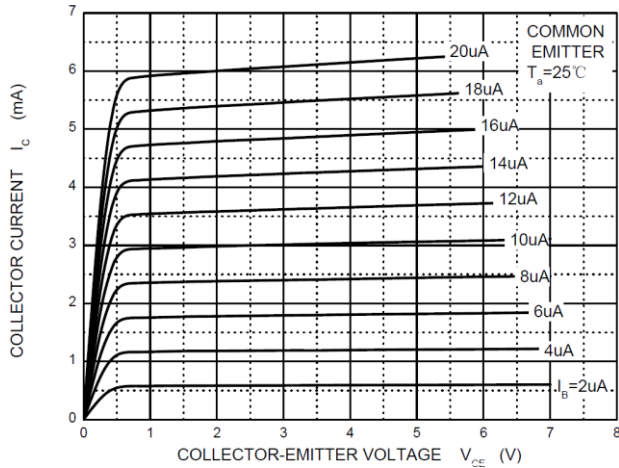
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector–Emitter Breakdown Voltage	$I_C=1mA, I_B=0$	50			V
$V_{(BR)CBO}$	Collector–Base Breakdown Voltage	$I_C=50\mu A, I_E=0$	60			V
$V_{(BR)EBO}$	Emitter–Base Breakdown Voltage	$I_E=50\mu A, I_C=0$	7			V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=60V, I_E=0$			0.1	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}=7V, I_C=0$			0.1	$\mu A$
$h_{FE}$	DC Current Gain	$V_{CE}=6V, I_C=1mA$	120		560	
$V_{CE(sat)}$	Collector–Emitter Saturation Voltage	$I_C=50mA, I_B=5mA$			0.4	V
$f_T$	Current Gain–Bandwidth Product	$V_{CE}=12V, I_C=2mA, f=100MHz$		180		MHz
$C_{ob}$	Output Capacitance	$V_{CB}=12V, I_E=0, f=1MHz$			3.5	pF

**Classification of  $h_{FE}$**

Rank	Q	R	S
Range	120~270	180~390	270~560

Typical Characteristics

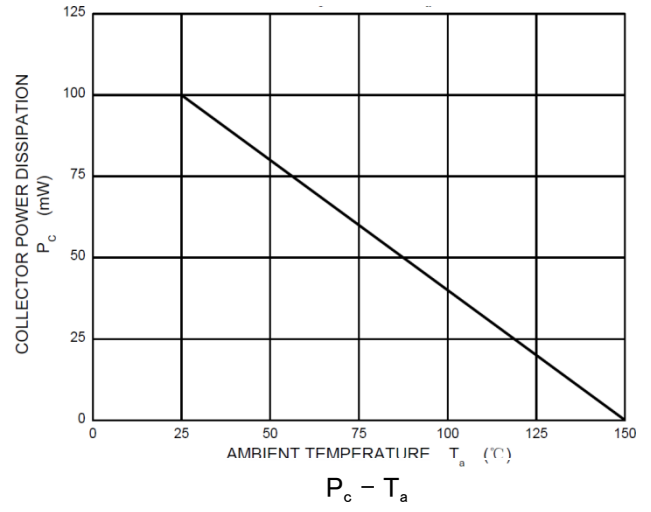
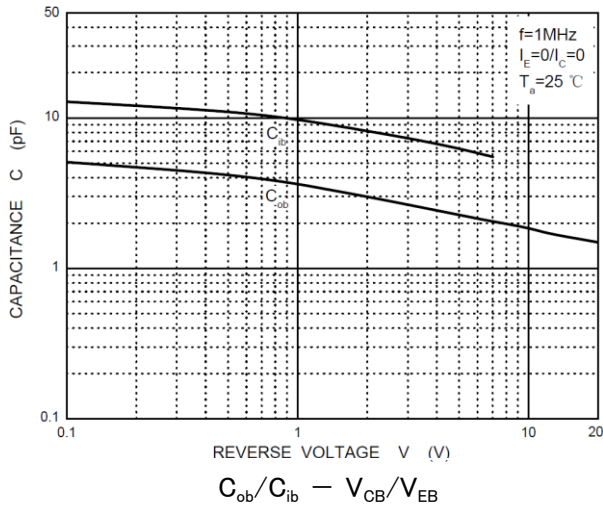




安美半导体  
ANMEI Semiconductor

# NPN General Purpose Amplifier

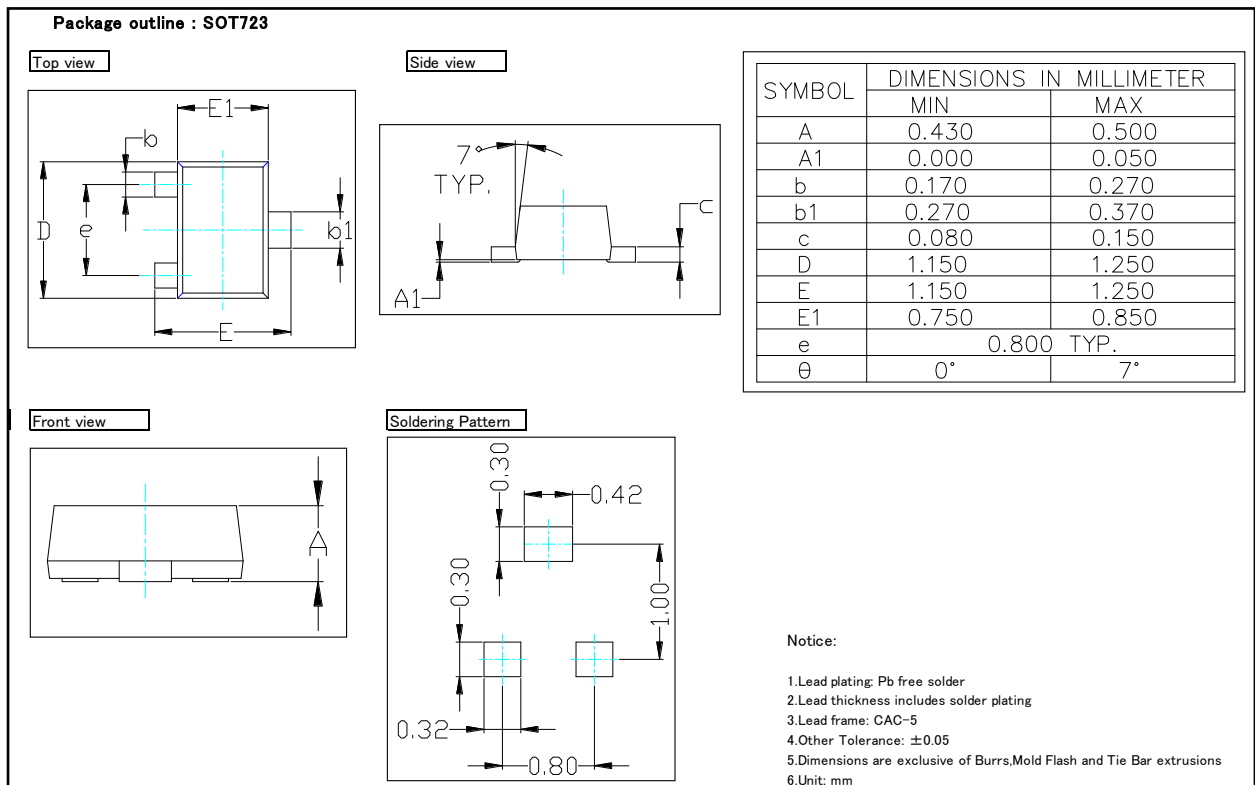
## NPN 通用放大器



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
2SC5658	SOT723	Tape & Reel 8000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions



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