

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Saturation Voltage:  $V_{CE(sat)}=0.5V(\text{Max.})(I_C=1A)$
- High Speed Switching Time:  $T_{stg}=1\mu s(\text{Typ.})$
- Complementary to 2SA1020

## MARKING



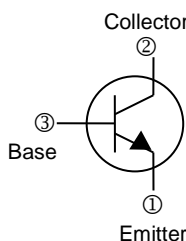
## CLASSIFICATION OF $h_{FE}$

Product-Rank	2SC2655-O	2SC2655-Y
Range	70-140	120-240

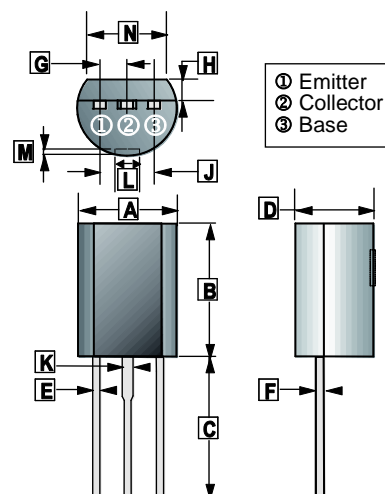
## ORDER INFORMATION

Part Number	Type
2SC2655-□	Lead (Pb)-free
2SC2655-□-C	Lead (Pb)-free and Halogen-free

\*□= $h_{FE}$  Rank



## TO-92MOD



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.50	6.50	H	1.70	2.05
B	8.00	9.00	J	2.70	3.20
C	12.70	14.50	K	0.85	1.15
D	4.50	5.30	L	1.60 Max.	
E	0.35	0.65	M	0.00	0.40
F	0.30	0.51	N	4.00 Min.	
G	1.50 Typ.				

## ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ C$ unless otherwise specified)

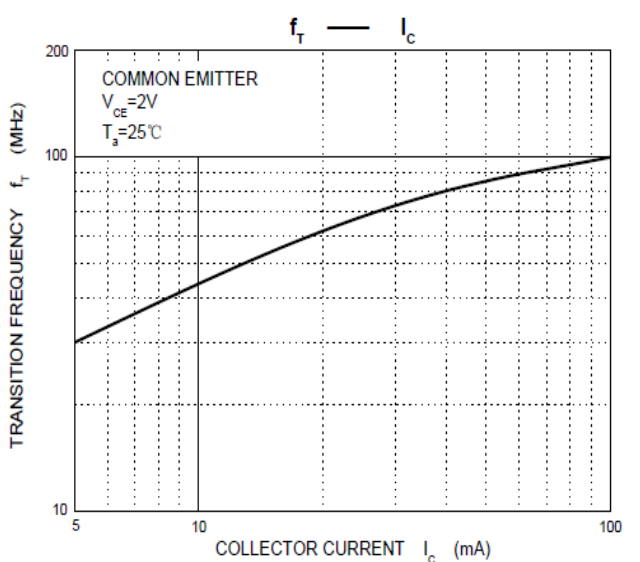
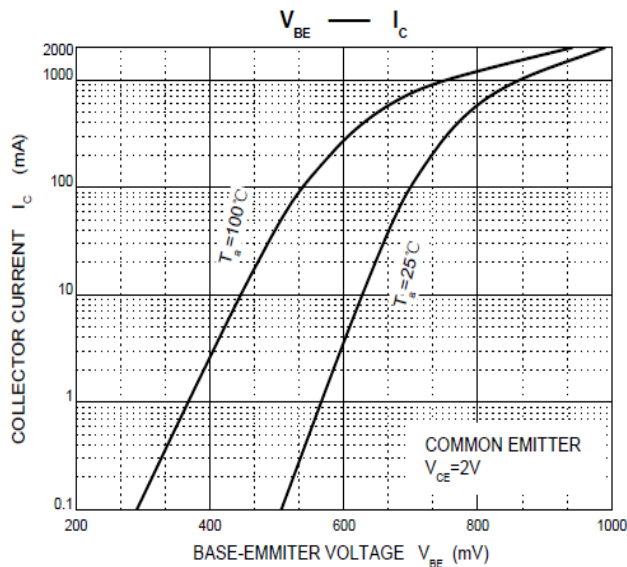
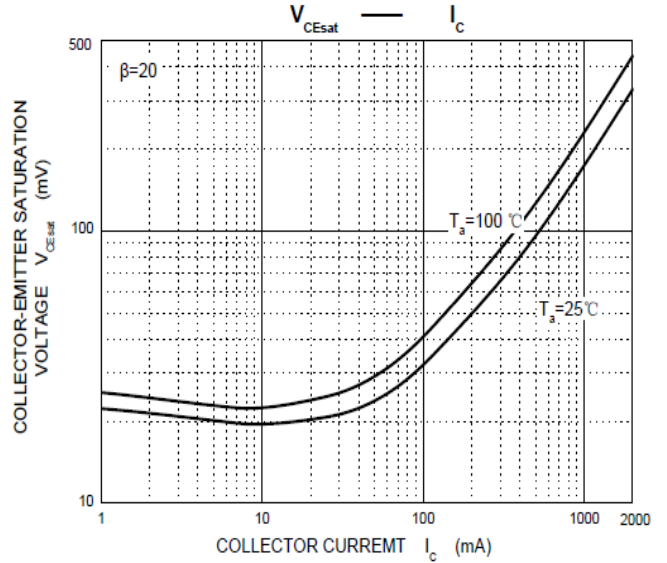
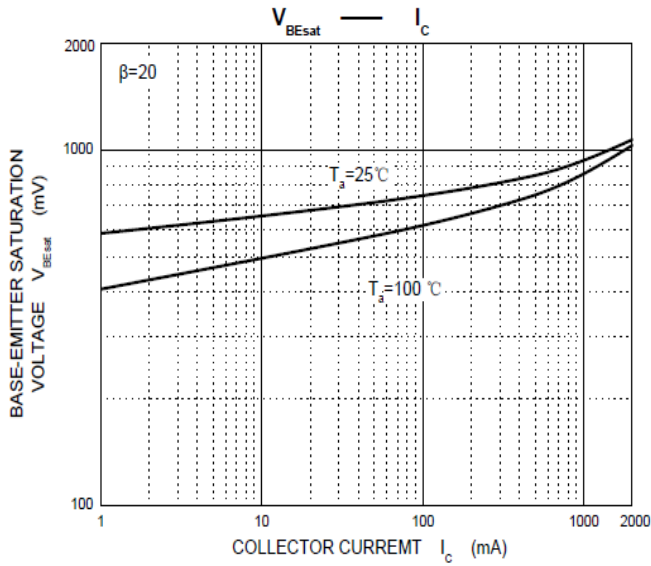
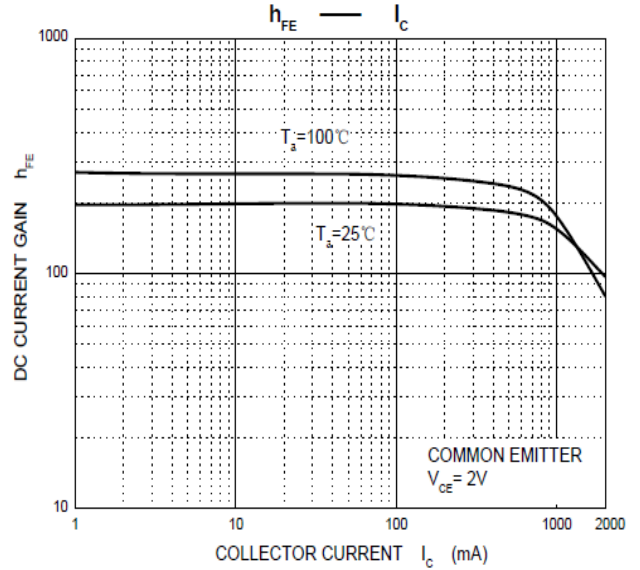
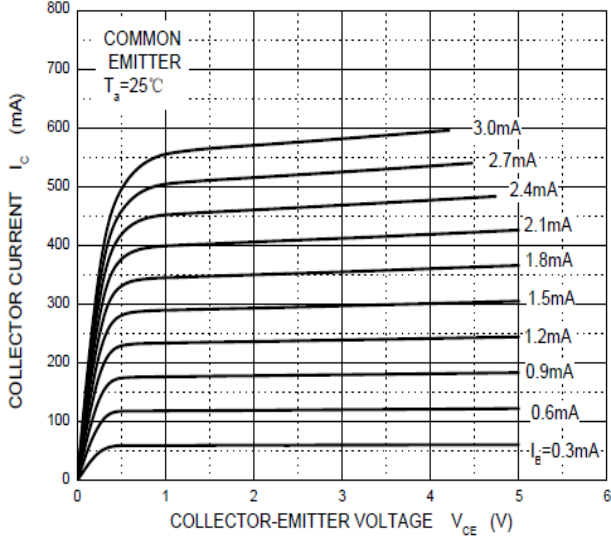
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current-Continuous	$I_C$	2	A
Collector Power Dissipation	$P_C$	0.9	W
Junction, Storage Temperature Range	$T_J, T_{STG}$	150, -55~150	$^\circ C$

## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ C$ unless otherwise specified)

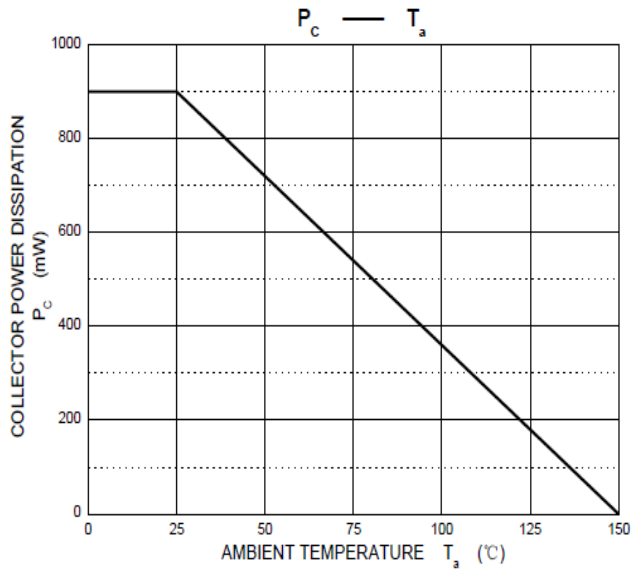
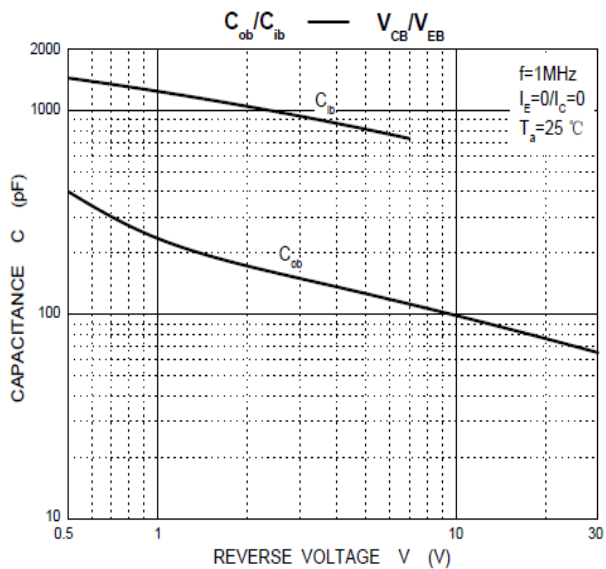
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	50	-	-	V	$I_C=100\mu A, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=10mA, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=100\mu A, I_C=0$
Collector Cut-off Current	$I_{CBO}$	-	-	1	$\mu A$	$V_{CB}=50V, I_E=0$
Emitter Cut-off Current	$I_{EBO}$	-	-	1	$\mu A$	$V_{EB}=5V, I_C=0$
DC Current Gain	$h_{FE}$	70	-	240		$V_{CE}=2V, I_C=500mA$
		40	-	-		$V_{CE}=2V, I_C=1.5A$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	$I_C=1A, I_B=0.05A$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1.2	V	$I_C=1A, I_B=0.05A$
Transition Frequency	$f_T$	-	100	-	MHz	$V_{CE}=2V, I_C=0.5A$
Collector Output Capacitance	$C_{ob}$	-	30	-	pF	$V_{CB}=10V, I_E=0, f=1MHz$
Turn-on Time	$T_{on}$	-	0.1	-	$\mu s$	$V_{CC}=30V, I_C=1A$ $I_{B1}=-I_{B2}=0.05A$
Storage Time	$T_s$	-	1	-		
Fall Time	$T_f$	-	0.1	-		

**CHARACTERISTIC CURVES**

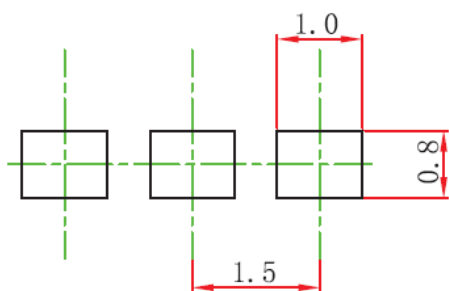
Static Characteristic



**CHARACTERISTIC CURVES**



**Mounting Pad Layout**



\*Dimensions in millimeters