

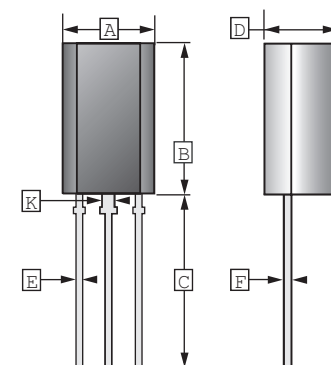
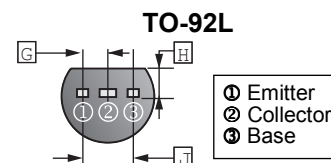
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

### FEATURES

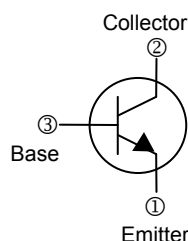
- Low saturation voltage :  $V_{CE(sat)}=0.5V(\text{Max})(I_C=1A)$
- High speed switching time :  $t_{stg}=1\mu s(\text{Typ.})$

### CLASSIFICATION OF $h_{FE}$ (1)

Product-Rank	2SC2655L-O	2SC2655L-Y
Range	70-140	120-240



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.70	5.10	F	0.35	0.45
B	7.80	8.20	G	1.27 TYP.	
C	13.80	14.20	H	1.28	1.58
D	3.70	4.10	J	2.44	2.64
E	0.35	0.55	K	0.60	0.80



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

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

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ 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	$I_C=10\text{mA}, I_B=0$
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	$h_{FE(1)}$	70	-	240		$V_{CE}=2V, I_C=0.5A$
	$h_{FE(2)}$	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	$V_{CB}=10V, I_E=0, f=1\text{MHz}$
Switch Time	Turn-on Time	$T_{on}$	-	0.1	-	$V_{CC}=30V$ $I_{B1}=-I_{B2}=0.05A$ $I_C=1A$
	Storage Time	$T_s$	-	1	-	
	Fall Time	$T_f$	-	0.1	-	

**CHARACTERISTIC CURVES**

Static Characteristic

