



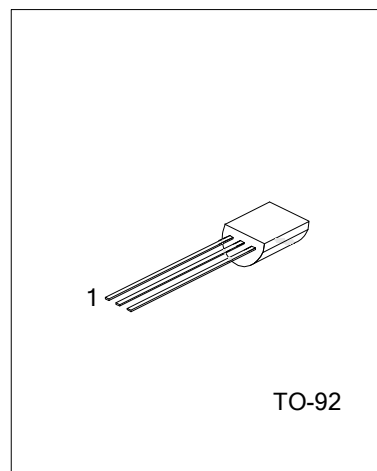
2SC3355

NPN SILICON EPITAXIAL TRANSISTOR

HIGH FREQUENCY LOW NOISE AMPLIFIER

■ FEATURES

- * Low Noise and High Gain
- * High Power Gain



TO-92

■ ORDERING INFORMATION

Ordering Number			Package	Packing
Normal	Lead Free	Halogen Free		
2SC3355-T92-B	2SC3355L-T92-B	2SC3355G-T92-B	TO-92	Tape Box
2SC3355-T92-K	2SC3355L-T92-K	2SC3355G-T92-K	TO-92	Bulk
2SC3355-T92-R	2SC3355L-T92-R	2SC3355G-T92-R	TO-92	Tape Reel

2SC3355L-T92-B	(1)Packing Type	(1) B: Tape Box, T: Tape Reel
	(2)Package Type	(2) T92: TO-92
	(3)Lead Free	(3) G: Halogen Free, L: Lead Free, Blank: Pb/Sn

■ **ABSOLUTE MAXIMUM RATING** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-base voltage	V_{CBO}	20	V
Collector-emitter voltage	V_{CEO}	12	V
Emitter-base voltage	V_{EBO}	3	V
Collector current	I_C	100	mA
Total power dissipation	P_T	600	mW
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Operating Temperature	T_{OPR}	-20 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40 ~ +150	$^{\circ}\text{C}$

- Note
1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied
 2. The device is guaranteed to meet performance specification within $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ operating temperature range and assured by design from $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$.

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I_{CBO}	$V_{CB}=10\text{V}, I_E=0$			1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=1\text{V}, I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=20\text{mA}$	50		300	
Gain bandwidth Product	f_T	$V_{CE}=10\text{V}, I_C=20\text{mA}$		7		GHz
Feed-Back Capacitance	C_{re}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$			1.0	pF
Noise Figure	NF	$V_{CE}=10\text{V}, I_C=7\text{mA}, f=1.0\text{GHz}$		1.1		dB

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