



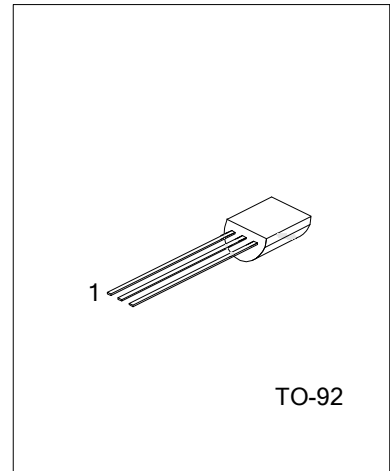
## 2SC3355

### NPN SILICON EPITAXIAL TRANSISTOR

### HIGH FREQUENCY LOW NOISE AMPLIFIER

#### ■ FEATURES

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



#### ■ 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

<p>2SC3355L-T92-B</p>	<p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Lead Free</p>	<p>(1) B: Tape Box, T: Tape Reel</p> <p>(2) T92: TO-92</p> <p>(3) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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■ 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	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=1\text{V}, I_C=0$			1.0	$\mu\text{A}$
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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