



UNISONIC TECHNOLOGIES CO., LTD

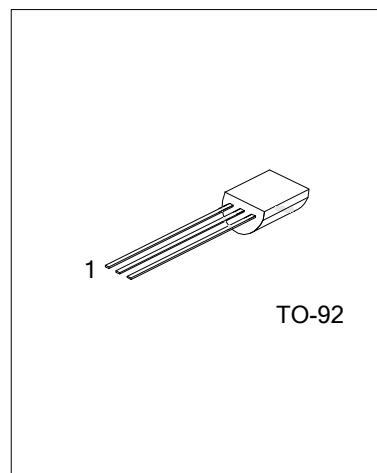
2SC3355

NPN SILICON EPITAXIAL TRANSISTOR

HIGH FREQUENCY LOW NOISE AMPLIFIER

FEATURES

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



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC3355L-T92-B	2SC3355G-T92-B	TO-92	B	E	C	Tape Box
2SC3355L-T92-K	2SC3355G-T92-K	TO-92	B	E	C	Bulk

Note: Pin Assignment: B: Base E: Emitter C: Collector

2SC3355L-T92-B	(1)Packing Type	(1) B: Tape Box, K: Bulk
	(2)Package Type	(2) T92: TO-92
	(3)Lead Free	(3) L: Lead Free, G: Halogen Free

MARKING INFORMATION

PACKAGE	MARKING
TO-92	<div>UTC 2SC3355</div> <div>L: Lead Free G: Halogen Free</div> <div>1</div> <div>Data Code</div>

■ 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	$^{\circ}\text{C}$

Notes: 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.

■ 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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