

UTC UNISONIC TECHNOLOGIES CO., LTD

9015

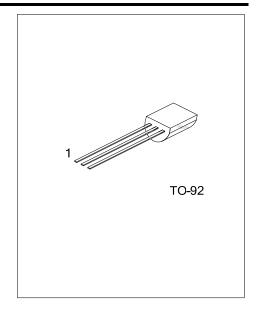
Preliminary

PNP EPITAXIAL SILICON TRANSISTOR

PRE-AMPLIFIER, LOW LEVEL & **LOW NOISE**

FEATURES

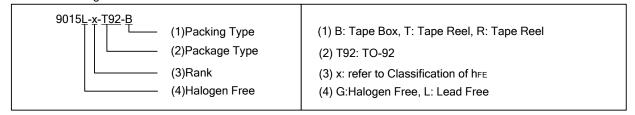
- * High total power dissipation. (450mW)
- * Excellent hFE linearity.
- * Complementary to UTC 9014



ORDERING INFORMATION

Ord	Ordering Number		Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing
9015L-x-T92-B	9015G-x-T92-B	TO-92	Е	В	С	Tape Box
9015L-x-T92-K	9015G-x-T92-K	TO-92	E	В	С	Bulk
9015L-x-T92-R	9015G-x-T92-R	TO-92	F	В	С	Tape Reel

Pin Assignment: E: EMITTER B: BASE C: COLLECTOR Note:



www.unisonic.com.tw 1 of 2 QW-R201-032,Ca

Preliminary

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-100	mA
Collector Dissipation	Pc	450	mW
Junction Temperature	T_J	+150	ç
Storage Temperature	T _{STG}	-55~+150	ç

Note: 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** (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	$I_C = -100 \mu A, I_E = 0$	-50			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-45			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	$I_C = -100 \text{mA}, I_B = -5 \text{mA}$		-0.2	-0.7	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	$I_C = -100 \text{mA}, I_B = -5 \text{mA}$		-0.82	-1.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -5V, I_{C} = -2mA$	-0.6	-0.65	-0.75	V
Collector Cutoff Current	I _{CBO}	$V_{CB} = -50V, I_{E} = 0$			-50	nA
Emitter Cutoff Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$			-100	nA
DC Current Gain	h _{FE}	$V_{CE} = -5V$, $I_C = -1mA$	60	200	600	
Output Capacitance	C _{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$		4.5	7.0	pF
Current Gain-Bandwidth Product	f _T	$V_{CE} = -5V, I_{C} = -10mA$	100	190		MHz
Noise Figure	NF	V_{CE} = -5V, I_{C} = -0.2mA f = 1KHz, Rs = 1K Ω		0.7	10	dB

■ CLASSIFICATION OF h_{FF}

RANK	Α	В	С
RANGE	60-150	100-300	200-600

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