UNISONIC TECHNOLOGIES CO., LTD

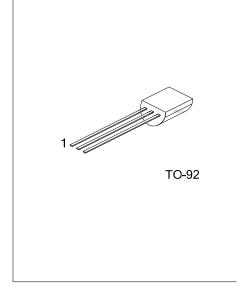
9015

PNP EPITAXIAL SILICON TRANSISTOR

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

FEATURES

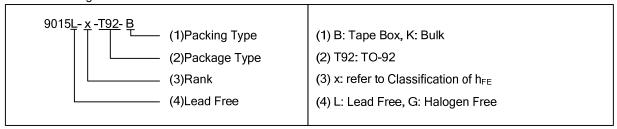
- * High total power dissipation. (450mW)
- * Excellent hFE linearity.
- * Complementary to UTC 9014



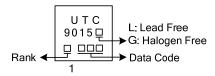
ORDERING INFORMATION

Ordering	Ordering Number		Pin Assignment			Dealing	
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	Е	В	С	Bulk	

Note: Pin assignment: E: Emitter C: Collector



MARKING



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

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

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.

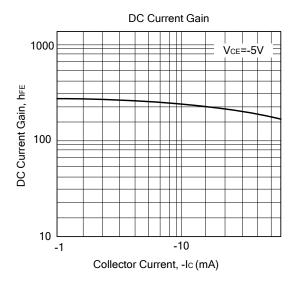
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

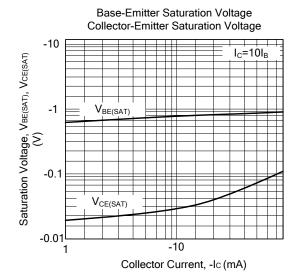
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	$I_C = -100 \mu A, I_E = 0$	-50			V
Collector-Emitter Breakdown Voltage	BV_CEO	$I_{C} = -1 \text{mA}, I_{B} = 0$	-45			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			V
Collector-Emitter 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_{FE}

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

■ TYPICAL CHARACTERICS





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