

UTC UNISONIC TECHNOLOGIES CO., LTD

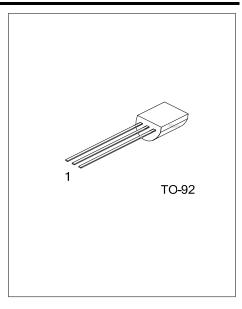
9015

Preliminary PNP EPITAXIAL SILICON TRANSISTOR

PRE-AMPLIFIER, LOW LEVEL & LOW NOISE

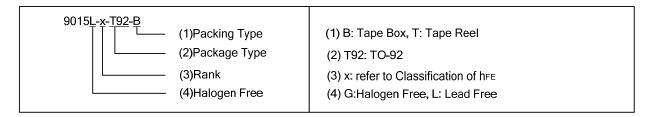
FEATURES

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



ORDERING INFORMATION

Ordering Number		Dookogo	Dooking	
Lead Free	Halogen Free	Package	Packing	
9015L-x-T92-B	9015G-x-T92-B	TO-92	Tape Box	
9015L-x-T92-K	9015G-x-T92-K	TO-92	Bulk	
9015L-x-T92-T	9015G-x-T92-T	TO-92	Tape Reel	



Preliminary PNP EPITAXIAL SILICON TRANSISTOR

■ 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	Ι _C	-100	mA
Collector Dissipation	Pc	450	mW
Junction Temperature	TJ	+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 (Ta=25°C, unless otherwise specified)

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{\rm C} = -100 \mu {\rm A}, \ I_{\rm E} = 0$	-50			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-45			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_{\rm E} = -100 \mu A, I_{\rm C} = 0$	-5			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -100mA, I _B = -5mA		-0.2	-0.7	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = -100mA, I _B = -5mA		-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	рF
Current Gain-Bandwidth Product	f⊤	$V_{CE} = -5V, I_{C} = -10mA$	100	190		MHz
Noise Figure	NF	V _{CE} = -5V, I _C = -0.2mA f = 1KHz, Rs = 1KΩ		0.7	10	dB

CLASSIFICATION OF h_{FE}

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

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