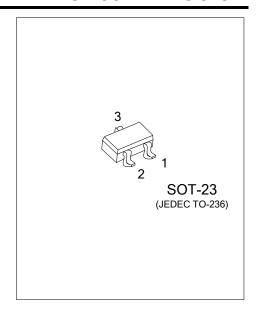
MMBT9015

PNP SILICON TRANSISTOR

PRE-AMPLIFIER, LOW LEVEL & LOW NOISE

■ FEATURES

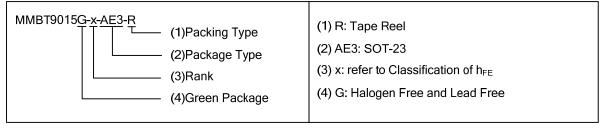
- *High total power dissipation. (450mW)
- *Excellent hFE linearity.
- *Complementary to UTC MMBT9014



■ ORDERING INFORMATION

Oudovina Numbar	Doolsons	Pin .	Assignr	Daakina	
Ordering Number	Package	1	2	3	Packing
MMBT9015G-x-AE3-R	SOT-23	Е	В	С	Tape Reel

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



MARKING



www.unisonic.com.tw 1 of 3

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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Emitter Voltage	V_{CEO}	-45	V
Collector-Base Voltage	V_{CBO}	-50	V
Emitter Base Voltage	V_{EBO}	-5	V
Collector Current	I _C	-100	mA
Collector dissipation	Pc	225	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 (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Voltage	V_{CEO}	I _C =-100μA, I _E =0	-50			V
Collector-Base Voltage	V_{CBO}	$I_C=-1$ mA, $I_B=0$	-45			V
Emitter Base Voltage	V_{EBO}	I _E =-100μA, I _C =0	-5			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,Ic=-1mA	60	200	600	
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
Current-Gain-Bandwidth Product	f _T	V _{CE} =-5V, I _C =-10mA	100	190		MHz
Output Capacitance	Сов	V _{CB} =-10V, I _E =0, f=1MHz		4.5	7.0	pF
Noise Figure	NF	V_{CE} =-5 V , I_{C} =-0.2 m A, f =1 K Hz, R_{S} =-1 K Ω		0.7	10	dB

■ CLASSIFICATION OF h_{FE}

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

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