

UNISONIC TECHNOLOGIES CO., LTD

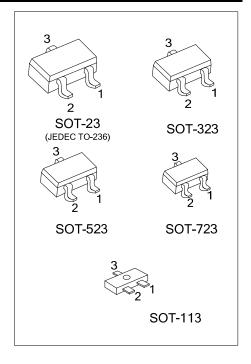
MMBT1015

PNP SILICON TRANSISTOR

LOW FREQUENCY PNP AMPLIFIER TRANSISTOR

FEATURES

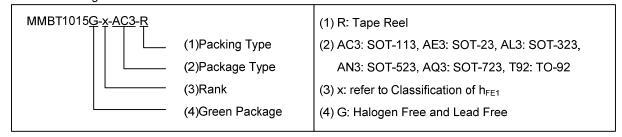
- * Collector-Emitter Voltage: BV_{CEO}= -50V
- * Collector current up to 150mA
- * High hee linearity
- * Complement to MMBT1815



ORDERING INFORMATION

Ordering Number	Deelsese	Pin Assignment			Dealine	
Ordering Number	Package	1	2	3	Packing	
MMBT1015G-x-AC3-R	SOT-113	Е	В	С	Tape Reel	
MMBT1015G-x-AE3-R	SOT-23	Е	В	С	Tape Reel	
MMBT1015G-x-AL3-R	SOT-323	Е	В	С	Tape Reel	
MMBT1015G-x-AN3-R	SOT-523	Е	В	С	Tape Reel	
MMBT1015G-x-AQ3-R	SOT-723	Е	В	С	Tape Reel	

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



MARKING

PACKAGE	MARKING				
SOT-23	Y	GR	BL		
		[E_			
	A4YG	A4GG	A4BG		

SOT-113 / SOT-323 / SOT-523	SOT-723
_A	
A4G	AG

www.unisonic.com.tw 1 of 4

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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-50	V
Collector-Emitter Voltage		V _{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Dissipation	SOT-23		250	
	SOT-523/SOT-113/SOT-323	Pc	200	mW
	SOT-723		190	
Collector Current		Ic	-150	mA
Base Current		lΒ	-50	mA
Junction Temperature		Τ _J	125	°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}	$I_C = -10 \text{mA}, I_B = 0$	-50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E = -10\mu A, I_C = 0$	-5			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = -100mA, I _B = -10mA		-0.1	-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$			-1.1	V
Collector Cut-off Current	I _{CBO}	$V_{CB} = -50V, I_E = 0$			-100	nA
Emitter Cut-off Current	I _{EBO}	$V_{EB} = -5V, I_C = 0$			-100	nA
DC Current Gain	h _{FE1}	$V_{CE} = -6V, I_{C} = -2mA$	120		700	
DC Current Gain	h _{FE2}	$V_{CE} = -6V, I_{C} = -150mA$	25			
Transition Frequency	f⊤	$V_{CE} = -10V, I_{C} = -1mA$	80			MHz
Output Capacitance C _{OB}		$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$		4.0	7.0	pF
Noise Figure	NF	I_C = -0.1mA, V_{CE} = -6V R_G = 1kΩ, f = 100Hz		0.5	6	dB

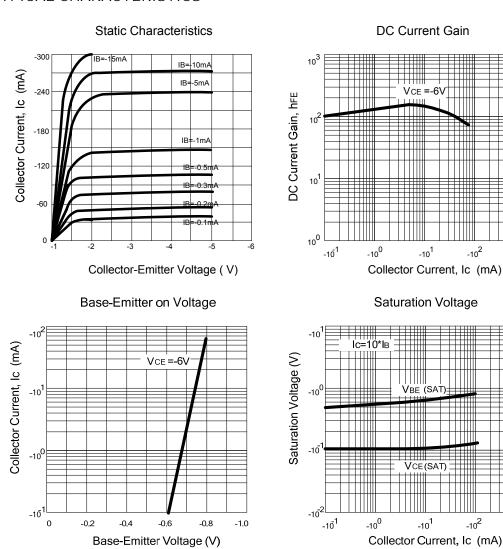
■ CLASSIFICATION OF h_{FE1}

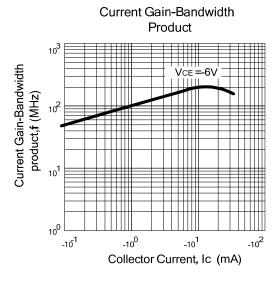
RANK	Y	GR	BL
RANGF	120-240	200-400	350-700

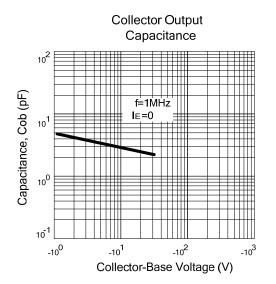
-10³

-10³

■ TYPICAL CHARACTERISTICS







UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Unisonic manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MMBT-2369-TR BC546/116 BC557/116 BSW67A NJVMJD148T4G NTE123AP-10 NTE153MCP NTE16

NTE195A NTE92 C4460 2N4401-A 2N6728 2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E 2SC2712S-GR,LF 2SC5488A-TL-H

2SD2150T100R SP000011176 2N2907A 2N3904-NS 2N5769 2SC2412KT146S 2SD1816S-TL-E CPH6501-TL-E MCH4021-TL-E

MJE340 US6T6TR NJL0281DG 732314D CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E

NJL0302DG 2N3583 30A02MH-TL-E NSV40301MZ4T1G NTE13 NTE26 NTE282 NTE323 NTE350 NTE81 STX83003-AP