



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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MMBT1015-L MMBT1015-H

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Collector-Emitter Voltage: BvcEo=-50V
- Collector current up to 150mA
- High Hfe linearity
- Complement to MMBT1815
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:BA
- Suffix "HF" is used to distinguish halogen free products from traditional halogen containing products

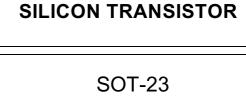
Maximum Ratings

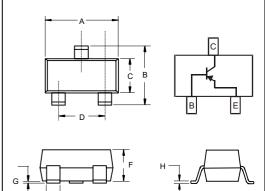
Junction Temperature: -55°C~125°C
 Storage Temperature: -55°C to +150°C

ABSOLUTE MAXIMUM RATINGS Ta= 25°C Unless Otherwise Specified

PARAMETERS	SYMBOL	VALUE	UNIT
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector dissipation	Pc	250	mW
Collector current	I c	-150	mA
Base Current	lв	-50	mA

PNP EPITAXIAL SILICON TRANSISTOR





NCHES MM MAX NOTE	DIMENSIONS					
A .106 .122 2.70 3.10 B .093 .108 2.35 2.75 C .067 .083 1.70 2.10 D .047 .059 1.20 1.50 E .014 .022 0.35 0.55 F .041 .053 1.05 1.35		INCHE	S	M	М	
B .093 .108 2.35 2.75 C .067 .083 1.70 2.10 D .047 .059 1.20 1.50 E .014 .022 0.35 0.55 F .041 .053 1.05 1.35	DIM	MIN	MAX	MIN	MAX	NOTE
C .067 .083 1.70 2.10 D .047 .059 1.20 1.50 E .014 .022 0.35 0.55 F .041 .053 1.05 1.35	A	.106	.122	2.70	3.10	
D .047 .059 1.20 1.50 E .014 .022 0.35 0.55 F .041 .053 1.05 1.35	В	.093	.108	2.35	2.75	
E .014 .022 0.35 0.55 F .041 .053 1.05 1.35	С	.067	.083	1.70	2.10	
F .041 .053 1.05 1.35	D	.047	.059	1.20	1.50	
1 1011 1000 1100	Е	.014	.022	0.35	0.55	
	F	.041	.053	1.05	1.35	
G00410	G		.004		.10	
H .003 .008 .08 .20	Н	.003	.008	.08	.20	



ELECTRICAL CHARACTERISTICS Ta=25 °C Unless Otherwise Specified

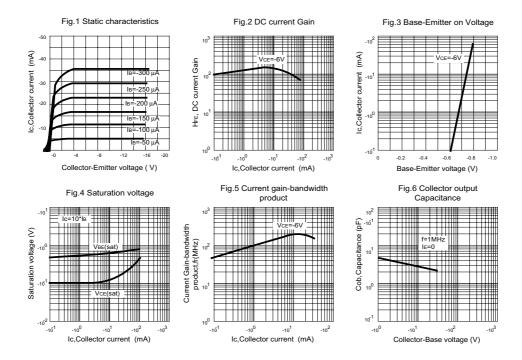
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	ВУсво	Ic=-100μA,IE=0	-50			V
Collector-emitter breakdown voltage	BVceo	Ic=-10mA,I _B =0	-50			V
Emitter-base breakdown voltage	BVEBO	IE=-10μA,Ic=0	-5			V
Collector cut-off current	Ісво	Vcb=-50V,IE=0			-100	nA
Emitter cut-off current	IEBO	V _{EB} =-5V,Ic=0			-100	nA
DC current gain(note)	hFE1	Vce=-6V,lc=-2mA	70		400	
	hFE2	Vce=-6V,lc=-150mA	25			
Collector-emitter saturation voltage	Vce(sat)	Ic=-100mA,IB=-10mA		-0.1	-0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	Ic=-100mA,I _B =-10mA			-1.1	V
Current gain bandwidth product	fτ	Vce=-10V,lc=-1mA	80			MHz
Output capacitance	Cob	V _{CB} =-10V,I _E =0,f=1MHz		4.0	7.0	pF

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Noise Figure	NF	Ic=-0.1mA,VcE=-6V		0.5	6	dB
		R _G =1kΩ,f=100Hz				

CLASSIFICATION OF HFE1

RANK	L	Н
RANGE	130-200	200-400

TYPICAL CHARACTERISTIC CURVES



Revision: B 2 of 3 **2011/0**4/18



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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