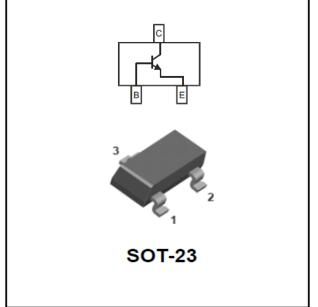
NPN General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking: 2X

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V _{CBO}	V		60
Collector-Emitter Voltage	V _{CEO}	V		40
Emitter-Base Voltage	V _{EBO}	V		6
Collector Current	lc	mA		600
Collector Power Dissipation	Pc	mW		300
Junction Temperature	Tj	°C		150
Storage Temperature	T _{stg}	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=10mA,IE=0	60		
Collector-emitter breakdown voltage	V _{CEO}	V	IC =1mA,IB=0	40		
Emitter-base breakdown voltage	V _{EBO}	V	IE=100µA,IC=0	6		
Collector-emitter cut-off current	I _{CEO}	nA	VCE=35V,IB=0			100
Collector-base cut-off current	I _{CBO}	nA	VCB=60V, IE =0			100
Emitter-base cut-off current	I _{EBO}	nA	VEB=3 V, IC =0			100
DC current gain	h _{FE}	V	VCE=1V,IC=150mA	100		300
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=150mA,IB=15mA			0.4
Base-emitter saturation voltage	V _{BE(sat)}	V	IC=150mA,IB=15mA			0.95
Transition frequency	f⊤	MHz	VCE=10V,IC=20mA,f=100MHz	250		
Delay time	td	ns	VCC=30V, VBE(off)=0.2V			15
Rise time	tr	ns	IC=150mA,IB1=15mA			20
Storage time	ts	ns				225
Fall time	tf	ns	VCC=30V,IC=150mA,IB1=IB2=15mA			30

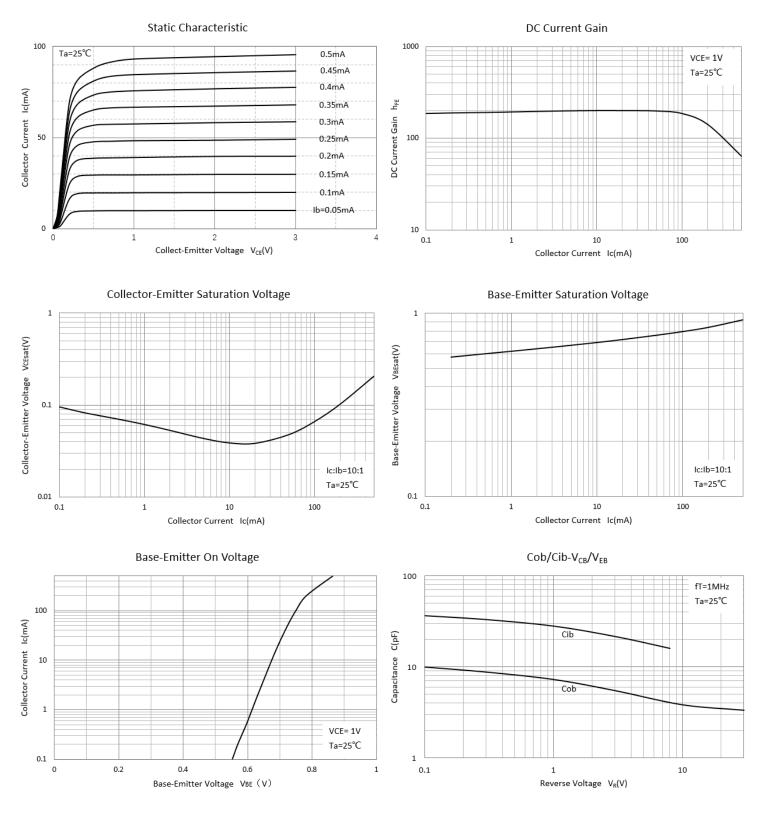




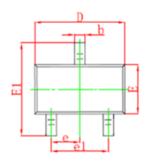
Ordering Information (Example)

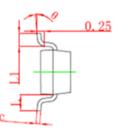
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBT4401	F2	Approximate 0.008	3000	30000	120000	7" reel

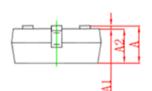
Characteristics (Typical)



■SOT-23 Package Outline Dimensions

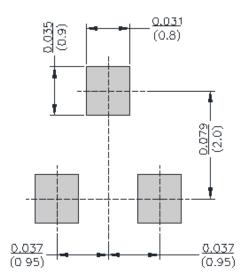






Symbol	Dimensions Ir	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
Al	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2.000	0.071	0.079	
L	0.55	OREF	0. 022REF		
L1	0.300	0.500	0.012 0.020		
θ	0°	8°	0°	8*	

■SOT-23 Soldering Footprint





Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.

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 Yangjie 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 2SC4731T-AY 2SC5488A-TL-H 2SD2150T100R SP000011176 FJPF5304DTU 2N2907A 2N3904-NS 2N5769 2SB1324-TD-E 2SC2412KT146S 2SC3332T 2SC3902S 2SC5231C8-TL-E 2SD1685F 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