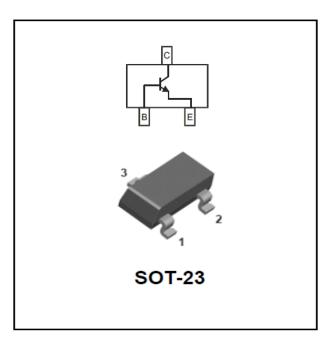




NPN General Purpose Amplifier



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)

■ Maximum Ratings (1a-25 € 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	Ic	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=100μ A,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	\(\(\text{CO} = 20\\\ \text{IO} = 450 \text{IO} \text{A \ \ID} \(\text{ID} = \text{ID} = 45 \text{ID} \text{A}			225
Fall time	tf	ns	VCC=30V,IC=150mA,IB1=IB2=15mA			60

1/4

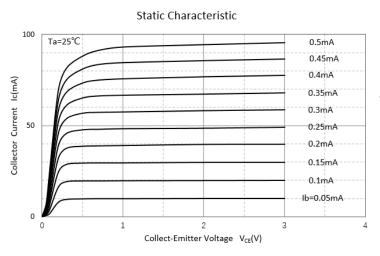


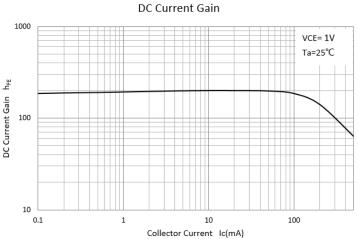


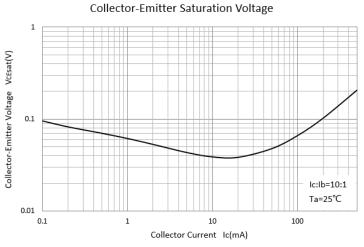
■ Ordering Information (Example)

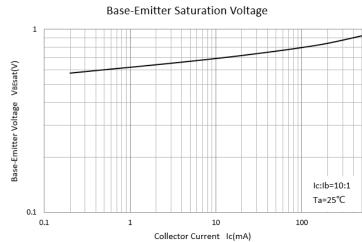
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBT4401	F2	Approximate 0.008	3000	30000	120000	7" reel

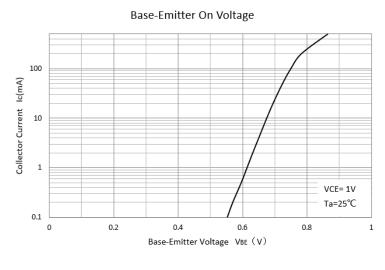
■ Characteristics (Typical)

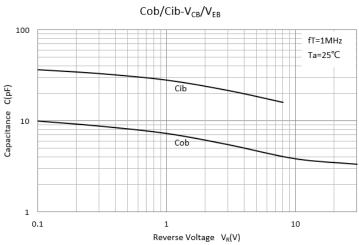








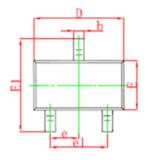


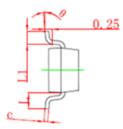


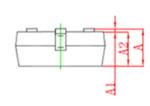




■SOT-23 Package Outline Dimensions

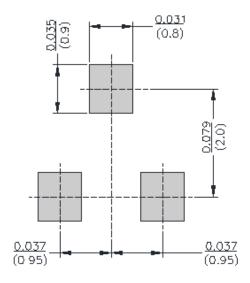






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0. 900	1. 150	0.035	0.045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3.000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0.055	
E1	2. 250	2. 550	0.089	0.100	
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





MMBT4401



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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Yangjie(扬杰)