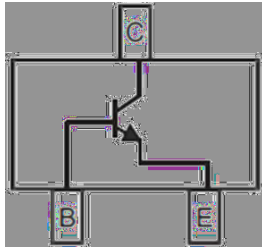


NPN General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- High Conductance
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- NPN General Purpose Amplifier

Mechanical Data

- Case: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 1GM

Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Value
Collector-Base Voltage	V_{CBO}	V	80
Collector-Emitter Voltage	V_{CEO}	V	80
Emitter-Base Voltage	V_{EBO}	V	4
Collector Current -Continuous	I_C	mA	500
Total Device Dissipation	P_D	mW	300
Junction Temperature	T_j		-55 to +150
Storage Temperature	T_{STG}		-55 to +150



Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=100\mu A, I_E=0$	80		
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=1mA, I_B=0$	80		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=100\mu A, I_C=0$	4		
Collector-base cut-off current	I_{CBO}	μA	$V_{CB}=80V, I_E=0$			0.1
Collector-emitter cut-off current	I_{CEO}	μA	$V_{CE}=60V, I_B=0$			0.1
Emitter-base cut-off current	I_{EBO}	μA	$V_{EB}=3V, I_C=0$			0.1
DC current gain	h_{FE}		$V_{CE}=1V, I_C=10mA$	100		
	h_{FE}		$V_{CE}=1V, I_C=100mA$	100		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=100mA, I_B=10mA$			0.25
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=100mA, I_B=10mA$			1.2

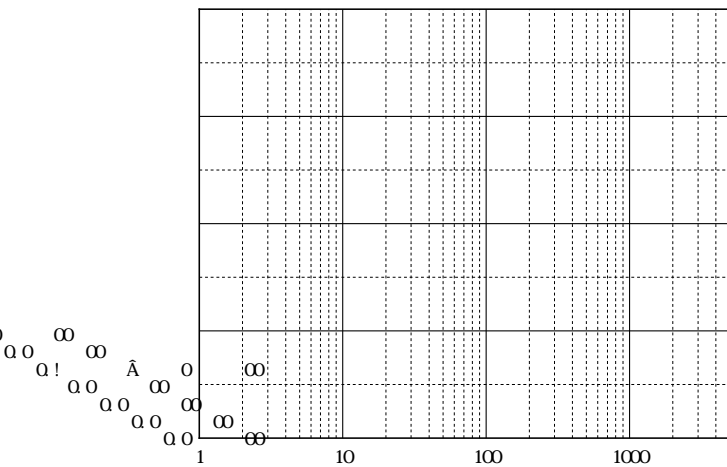
Other Characteristics (Ta=25 unless otherwise noted)

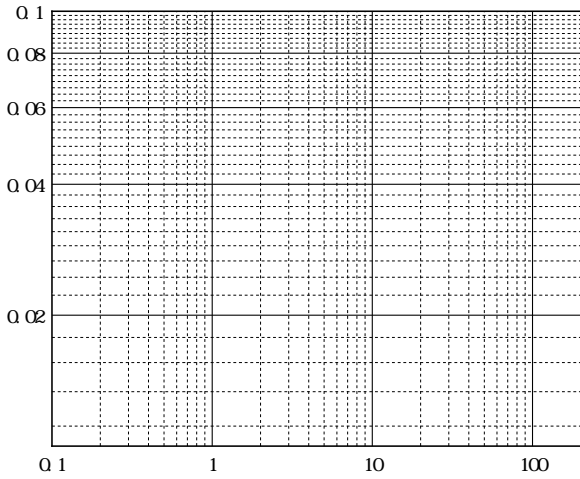
Item	Symbol	Unit	Conditions	Min	Typ	Max
Transition frequency	f_T	MHz	$V_{CE}=2V, I_C=10mA, f=100MHz$	100		

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBTA06Q	F2	Approximate 0.01	3000	30000	120000	7" reel

Characteristics (typical)







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.