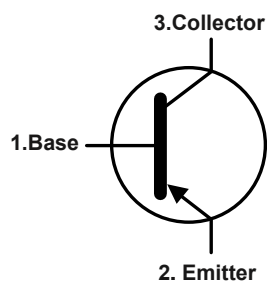


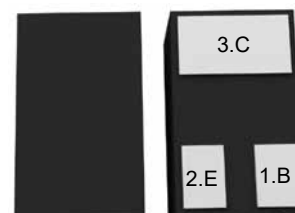
Features

- For Switching and AF Amplifier Applications.

Equivalent Circuit

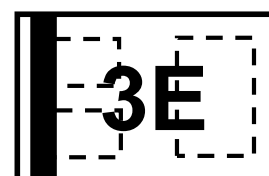


DFN1x0.6-3L



1.Base 2.Emitter 3.Collector

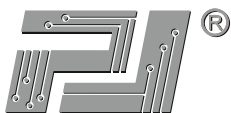
Marking Code :



Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	40	V
Collector Emitter Voltage	$-V_{CEO}$	40	V
Emitter Base Voltage	$-V_{EBO}$	6	V
Collector Current	$-I_C$	200	mA
Maximum Power Dissipation	P_D	250	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

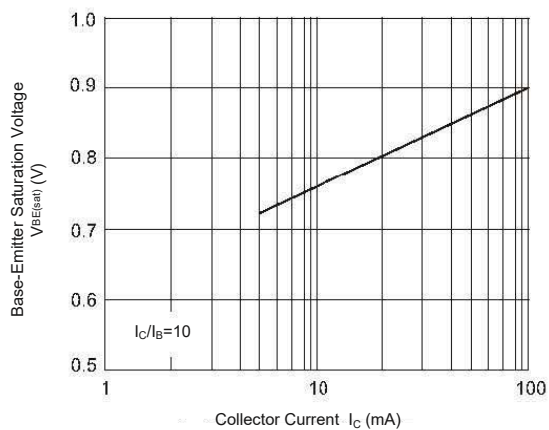
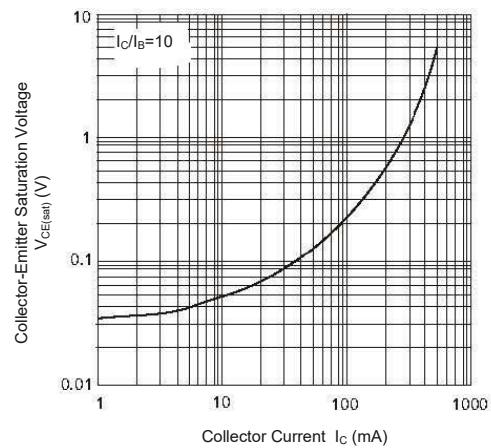
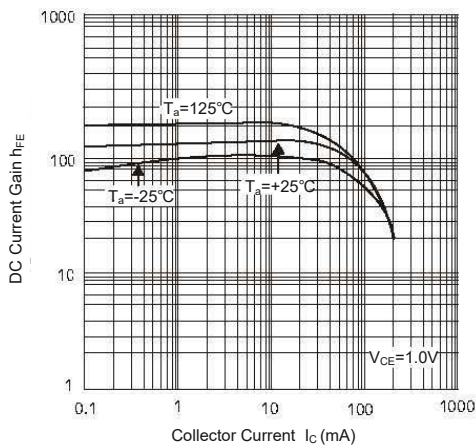
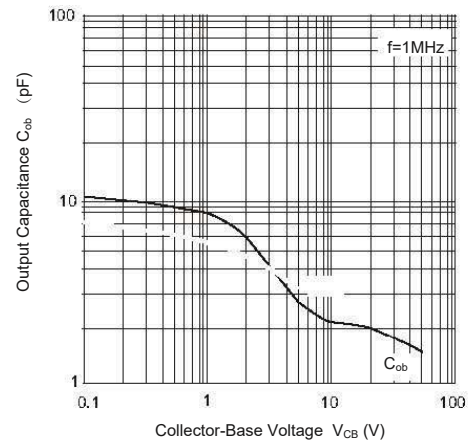
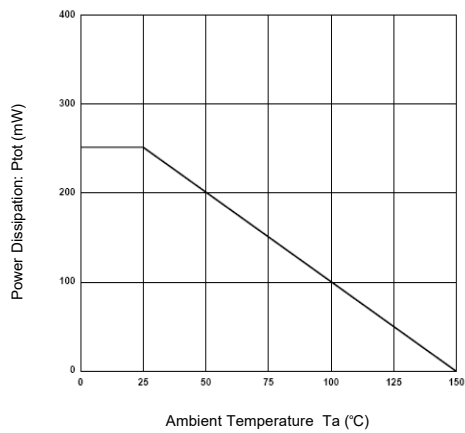


Electrical Characteristics (T_A=25°C)

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at V _{CE} = -1 V, I _C = -0.1 mA at V _{CE} = -1 V, I _C = -1 mA at V _{CE} = -1 V, I _C = -10 mA at V _{CE} = -1 V, I _C = -50 mA at V _{CE} = -1 V, I _C = -100 mA	H _{FE}	60 80 100 60 30	-- -- 300 -- --	--
Collector Base Cutoff Current at V _{CB} = -30V	-I _{CBO}	--	50	nA
Emitter Base Cutoff Current at V _{EB} = -6 V	-I _{EBO}	--	50	nA
Collector Base Breakdown Voltage at I _C = -10 μA	-V _{(BR)CBO}	40	--	V
Collector Emitter Breakdown Voltage at I _C = -1 mA	-V _{(BR)CEO}	40	--	V
Emitter Base Breakdown Voltage at I _E = -10 μA	-V _{(BR)EBO}	6	--	V
Collector Emitter Saturation Voltage at I _C = -10 mA, I _B = -1 mA at I _C = -50 mA, I _B = -5 mA	-V _{CE(sat)}	-- --	0.25 0.4	V
Base Emitter Saturation Voltage at I _C = -10 mA, I _B = -1 mA at I _C = -50 mA, I _B = -5 mA	-V _{BE(sat)}	0.65 --	0.85 0.95	V
Transition Frequency at V _{CE} = -20 V, I _C = -10 mA, f = 100 MHz	F _T	250	--	MHz
Output Capacitance at V _{CB} = -5 V, I _E = 0, f = 1 MHz	C _{ob}	--	4.5	pF



Typical Characteristic Curves

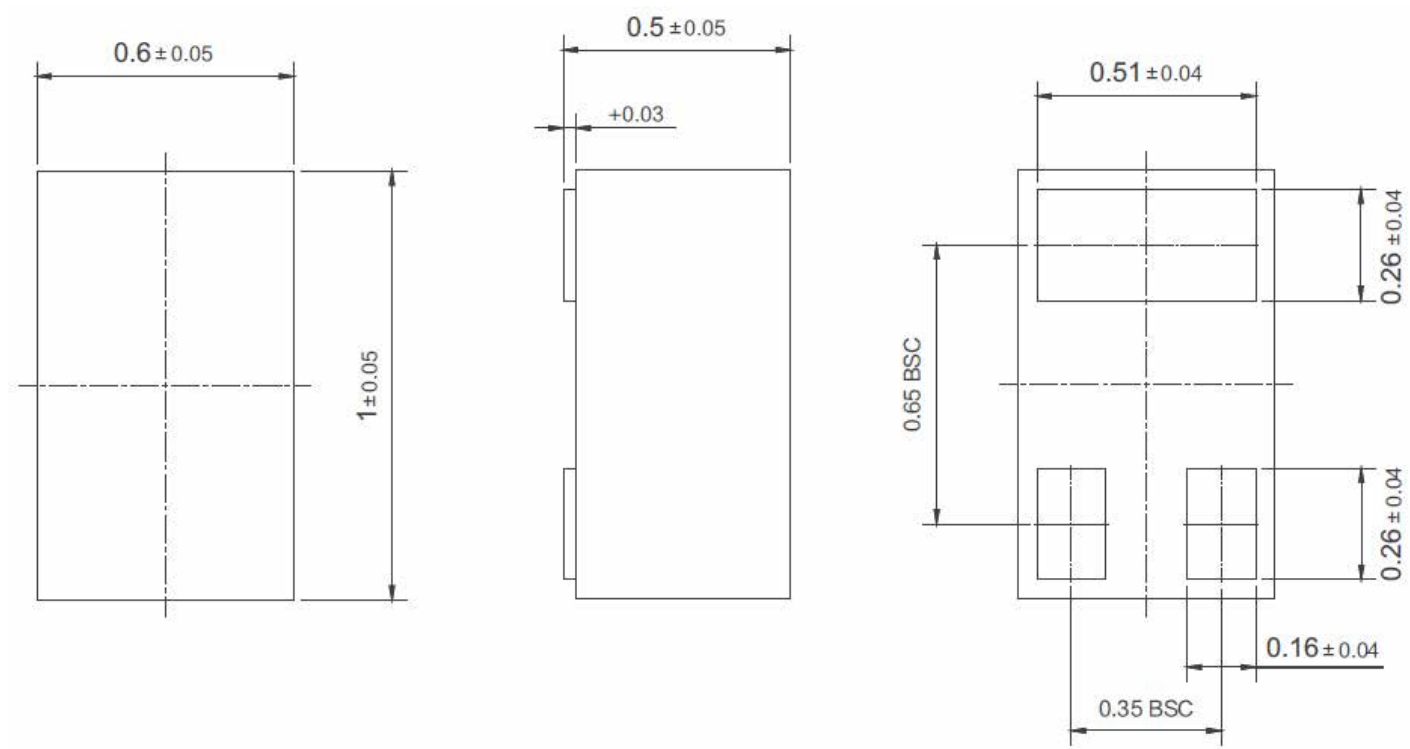




Package Outline

DFN1x0.6-3L-0009

Dimensions in mm



Ordering Information

Device	Package	Shipping
MMBT3906DC	DFN1x0.6-3L	10,000PCS/Reel&7inches