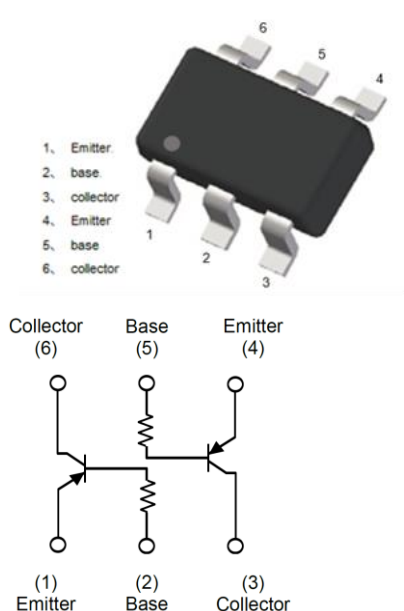


Dual PNP Digital Transistors (Built-in Resistors)



Features

- Moisture sensitivity level 1
- Halogen free and RoHS compliant
- Surface mount package ideally suited for automatic insertion

Application

- Signal amplification
- Switching circuit

Mechanical data

- **Package:** SOT-363S
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				B3
Collector-base voltage	$V_{(BR)CBO}$	V		-50
Collector-emitter voltage	$V_{(BR)CEO}$	V		-50
Emitter-base voltage	$V_{(BR)EBO}$	V		-5
Collector current	I_C	mA		-100
Power dissipation	P_D	mW		150
Operation junction temperature	T_J	$^{\circ}\text{C}$		-55 to +150
Storage temperature	T_{STG}	$^{\circ}\text{C}$		-55 to +150



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■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V _{(BR)CBO}	V	I _C =-50μA	-50		
Collector-emitter breakdown voltage	V _{(BR)CEO}	V	I _C =-1mA	-50		
Emitter-base breakdown voltage	V _{(BR)EBO}	V	I _E =-50μA	-5		
Collector cut-off current	I _{CBO}	μA	V _{CB} =-50V			-0.5
Emitter cut-off current	I _{EBO}	μA	V _{EB} =-4V			-0.5
Collector-emitter saturation voltage	V _{CE(SAT)}	V	I _C =-5mA, I _B =-0.25mA			-0.3
DC current gain	h _{FE}		V _{CE} =-5V, I _C =-1mA	100		600
Input resistance	R ₁	kΩ		3.29	4.7	6.11
Transition frequency	f _T	MHz	V _O =-10V, I _O =5mA, f=100MHz		250	

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	834
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	667

Note:

(1) Device mounted on PCB, single-sided copper, with standard footprint

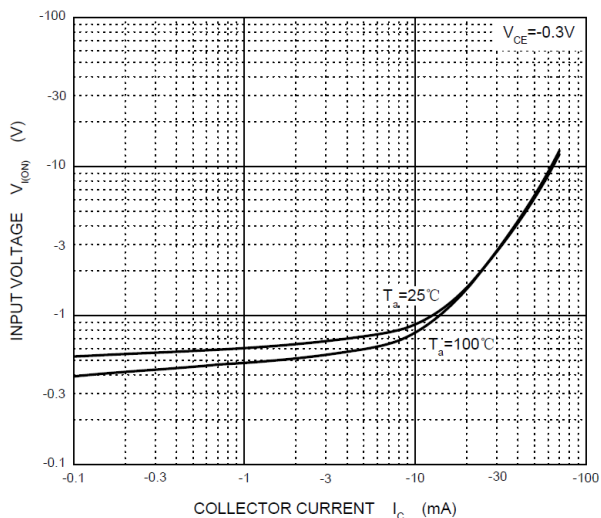
■ Ordering Information

Part Number	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
UMB3NS	F2	Approximate 0.009	3000	30000	120000	7" reel
UMB3NS	F3	Approximate 0.009	10000	/	210000	7" reel

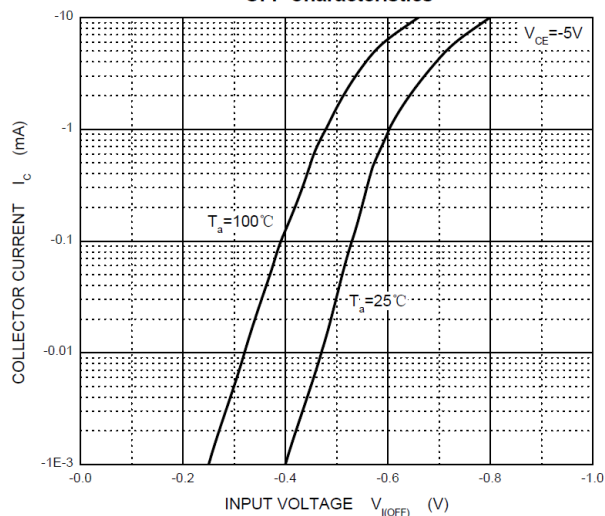
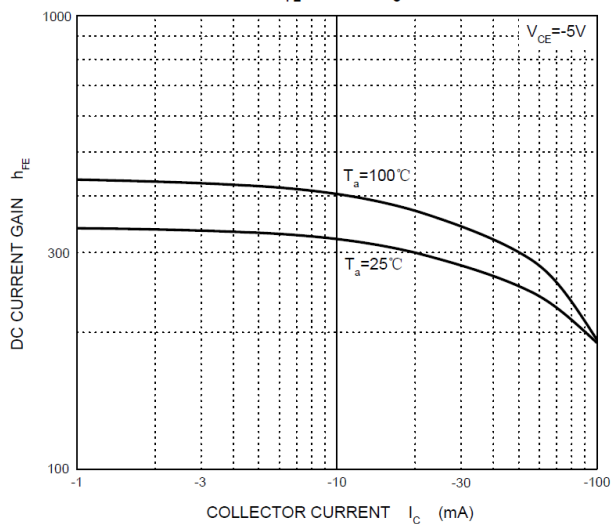
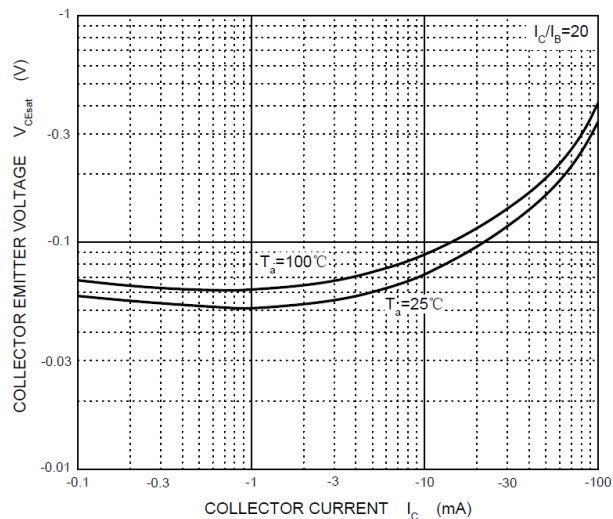
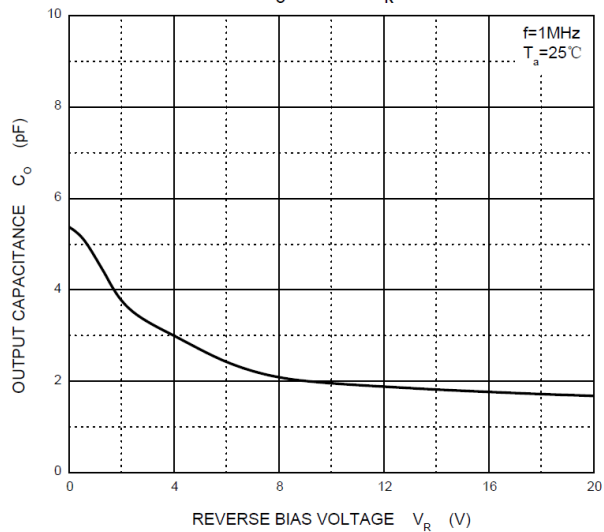
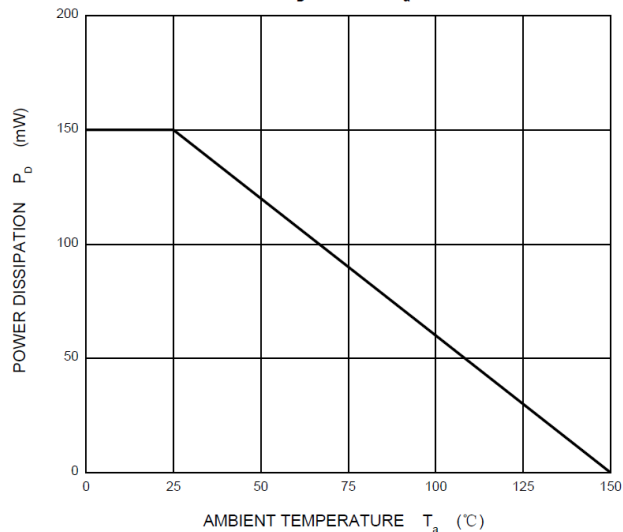


■Characteristics(Typical)

ON Characteristics

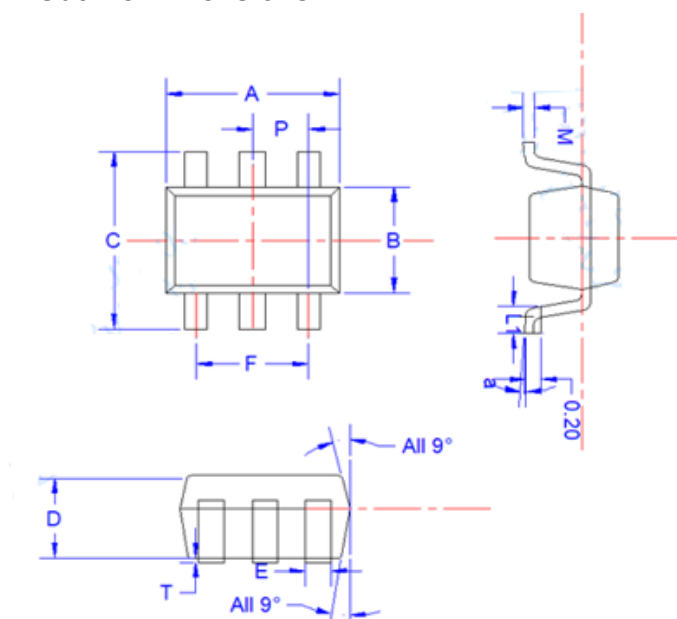


OFF Characteristics

 h_{FE} — I_c  V_{CEsat} — I_c  C_o — V_R  P_D — T_a 

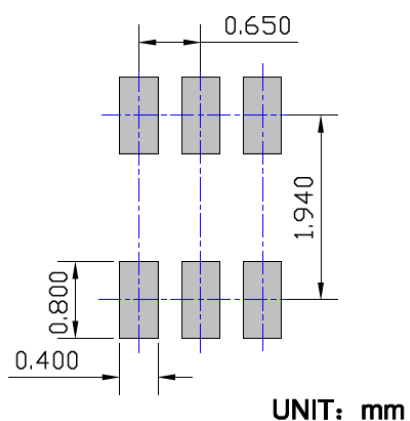


■ Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
E	0.15	0.25	0.35
B	1.15	1.25	1.35
C	2.00	2.10	2.20
P	0.650BSC		
A	1.80	2.00	2.20
T	0.00	0.05	0.100
D	0.90	0.95	1.00
L1	0.20	0.30	0.40
a	4°±4°		
M	0.10	0.15	0.25

■ Suggested Pad Layout





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