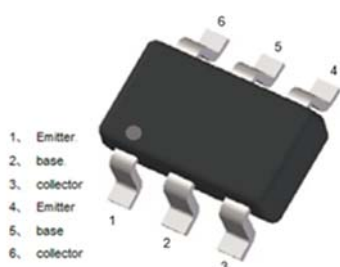
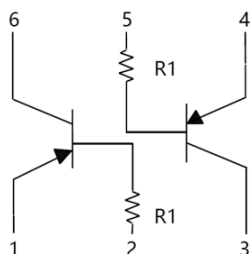


Dual PNP Digital Transistors (Built-in Resistors)



Features

- Moisture sensitivity level 1
- General switching and amplification
- 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				B14
Collector-base voltage	V_{CBO}	V		-50
Collector-emitter voltage	V_{CEO}	V		-50
Emitter-base voltage	V_{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 voltage	V _{CBO}	V	I _C =-50uA	-50		
Collector-emitter voltage	V _{CEO}	V	I _C =-1mA	-50		
Emitter-base voltage	V _{EBO}	V	I _E =-50uA	-5		
Collector-base cut-off current	I _{CBO}	uA	V _{CB} =-50V			-0.5
Emitter-base cut-off current	I _{EBO}	uA	V _{EB} =-4V			-0.5
DC current gain	h _{FE}		V _{CE} =-5V, I _C =-1mA	100		600
Input resistance	R _i	kΩ		32.9	47	61.1
Collector-emitter saturation voltage	V _{CE(sat)}	V	I _C =-5mA, I _B =-0.5mA			-0.3
Transition frequency	f _T	MHz	V _{CE} =-10V, I _E =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

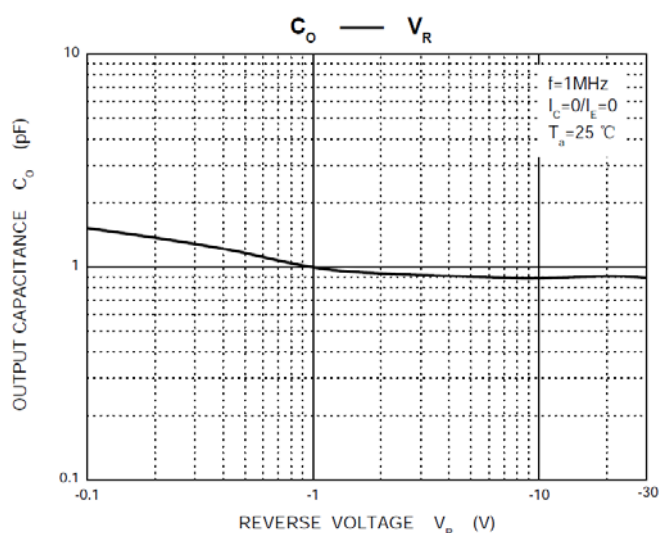
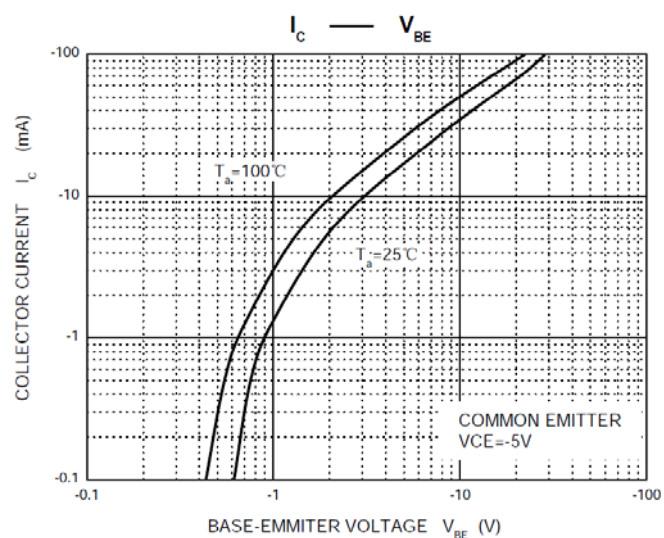
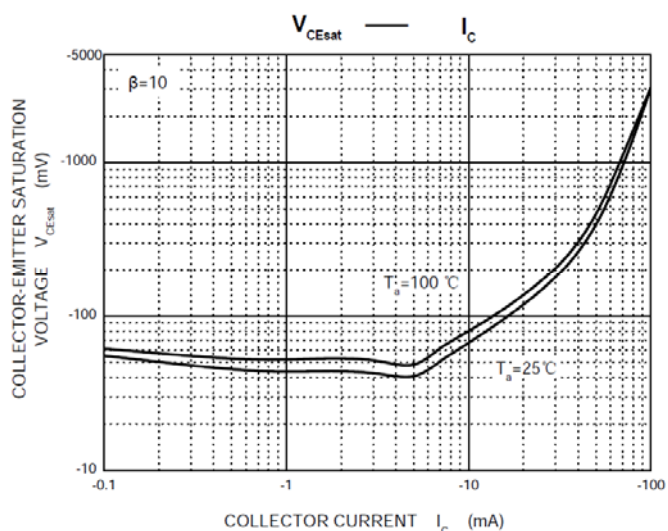
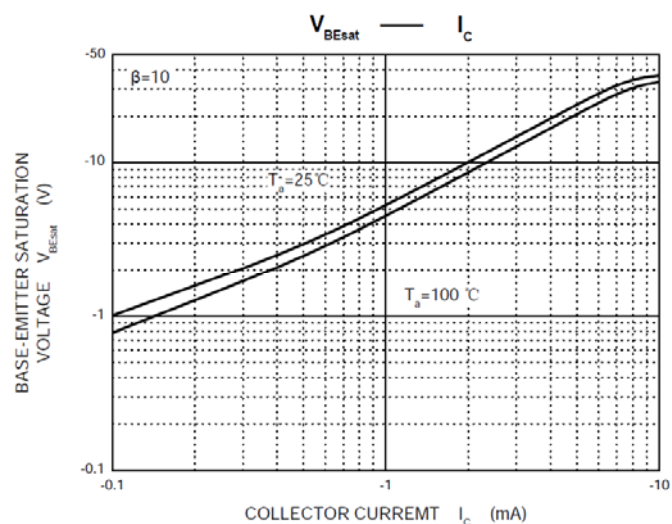
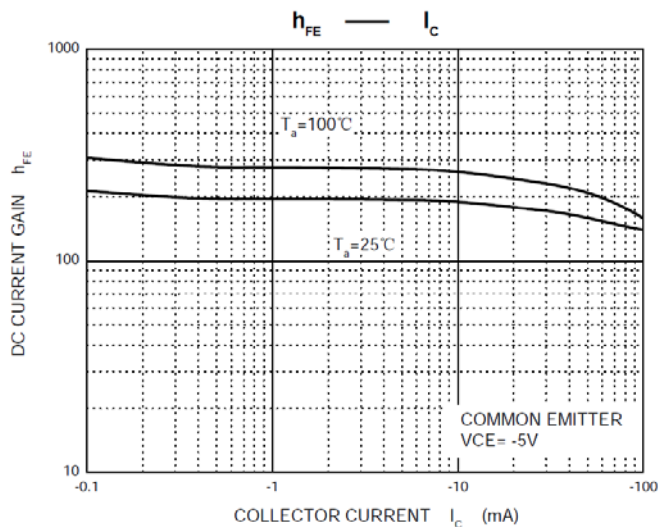
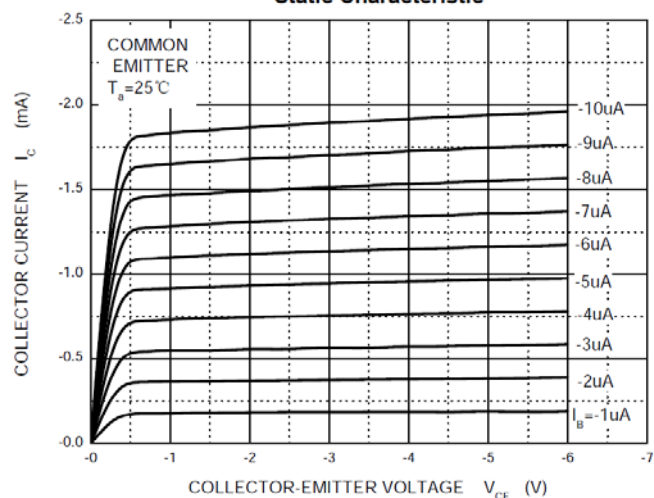
■ Ordering Information

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
UMB14NS	F2	Approximate 0.009	3000	30000	120000	7" reel
UMB14NS	F3	Approximate 0.009	10000	/	210000	7" reel



■Characteristics

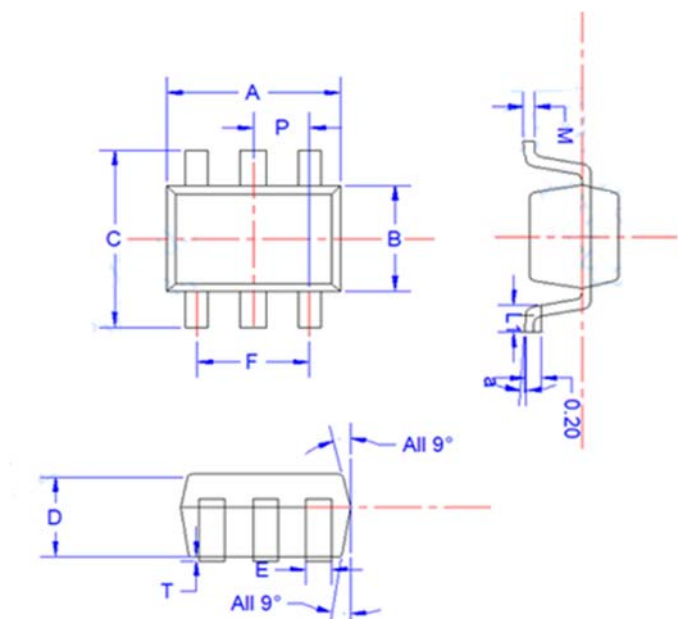
Static Characteristic





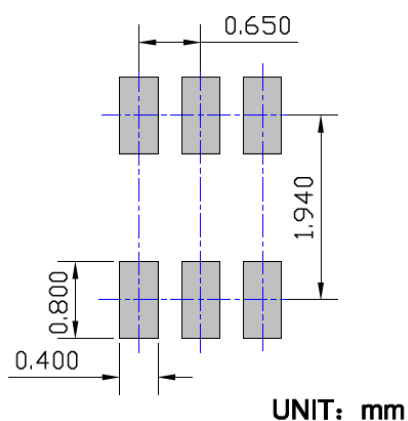
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■ Outline Dimensions



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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