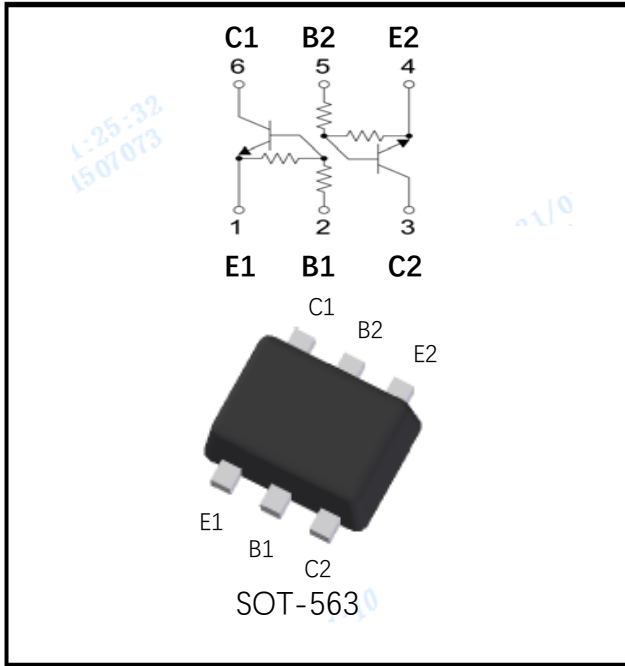


Dual NPN Digital Transistors (Built-in Resistors)



Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- NPN+NPN

Mechanical Data

- **Package:** SOT-563
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** H10
- **Solid point:** E1 positioning point

■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Supply Voltage	VCC	V		50
Input Voltage	VIN	V		-5 to +12
Output Current	IO	mA		100
Power Dissipation	PD	mW		150
Junction Temperature (Single)	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150



EMH10

■ Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Input voltage	$V_{I(off)}$	V	VCC=5V, Ic=100uA Vo=0.3V, Ic=5mA	0.5		1.1
	$V_{I(on)}$	V				
Output voltage	$V_{O(on)}$	V	Io /Ii =5mA/0.25 mA		0.1	0.3
Input current	Ii	mA	Vi=5V	-	-	3.6
Output current	$I_{O(off)}$	uA	VCC=50V, Vi=0			0.5
DC current gain	GI		Vo=5V, Io =10mA	80		
Input resistance	R_1	kΩ		1.54	2.2	2.86
Resistance ratio	R_2/R_1			17	21	26
Transition frequency	fT	MHz	Vo=10V, IO=5mA, f=100MHz		250	

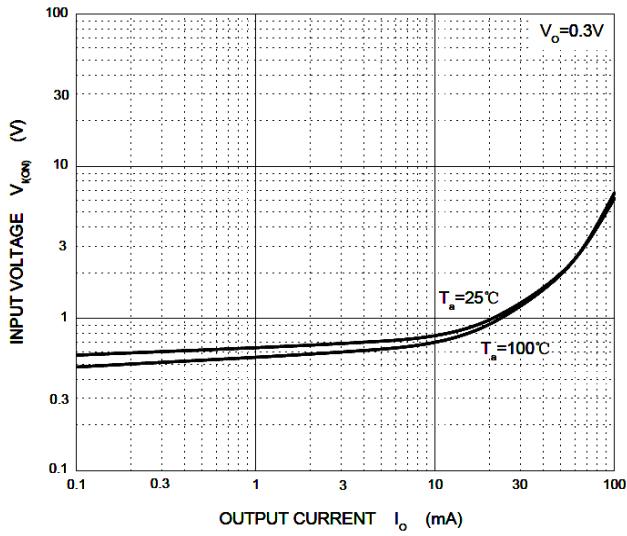
■ Ordering Information (Example)

Preferred P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
EMH10	F2	Approximate 0.0035	3000	30000	120000	7" reel

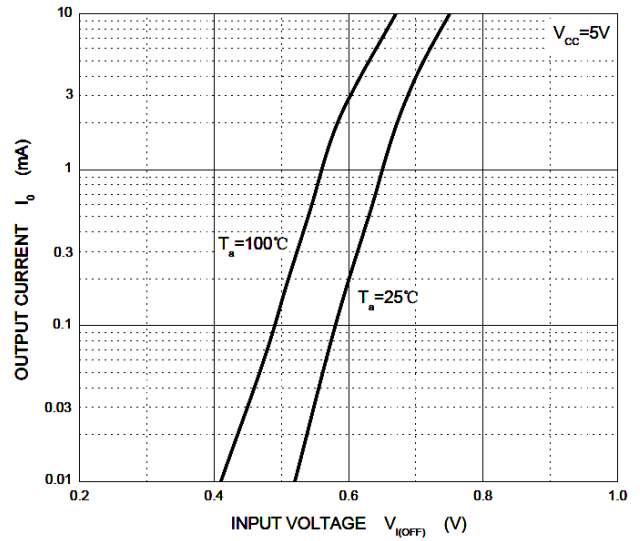


■ Characteristics (Typical)

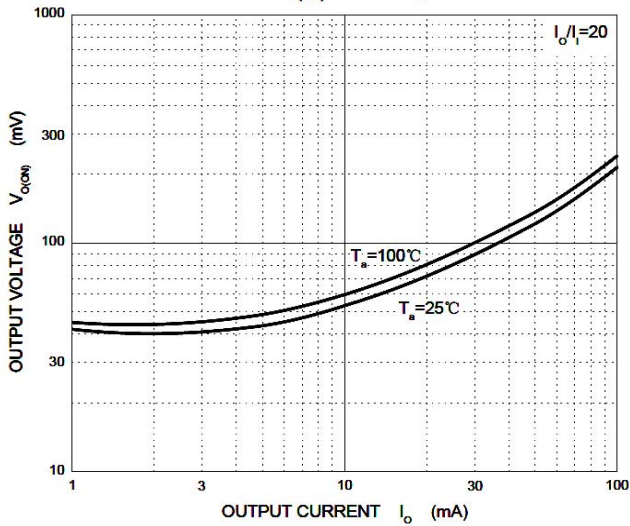
ON Characteristics



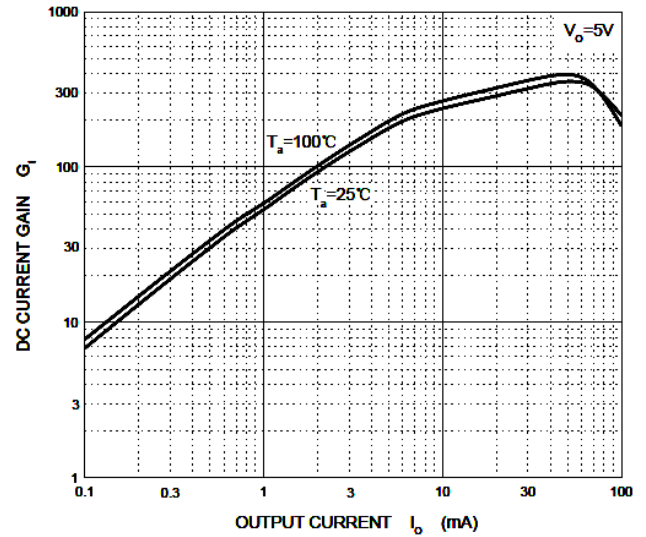
OFF Characteristics



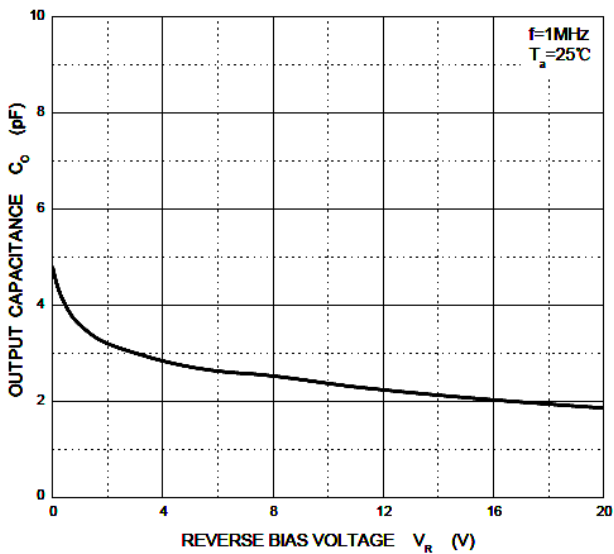
$V_{O(ON)}$ — I_O



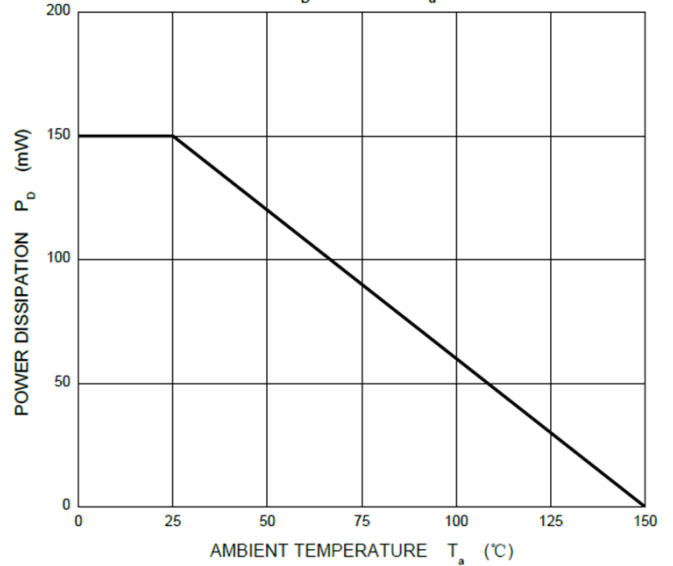
G_I — I_O



C_O — V_R

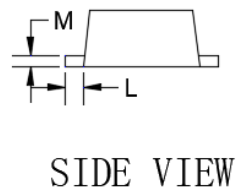
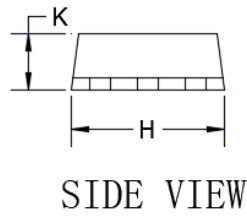
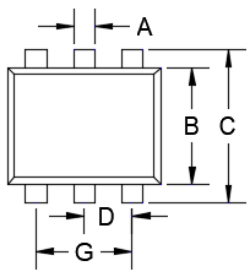


P_D — T_a



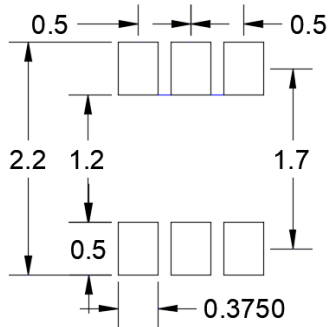
■ Outline Dimensions

SOT-563



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.006	0.011	0.150	0.300
B	0.043	0.051	1.100	1.300
C	0.059	0.067	1.500	1.700
D	0.016	0.024	0.400	0.600
G	0.035	0.043	0.900	1.100
H	0.059	0.067	1.500	1.700
K	0.021	0.026	0.550	0.650
L	0.004	0.011	0.100	0.300
M	0.004	0.007	0.100	0.180

■ Suggested Pad Layout



单位: mm

SUGGESTED SOLDER PAD LAYOUT



EMH10

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