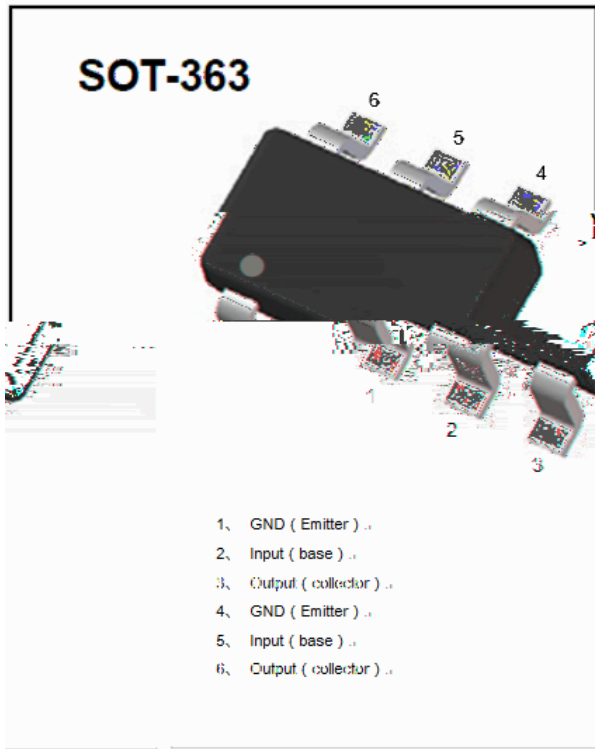


Dual NPN Digital Transistors (Built-in Resistors)



Features

- Epoxy meets UL-94 V-0 flammability rating
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- Surface mount package ideally Suited for Automatic Insertion

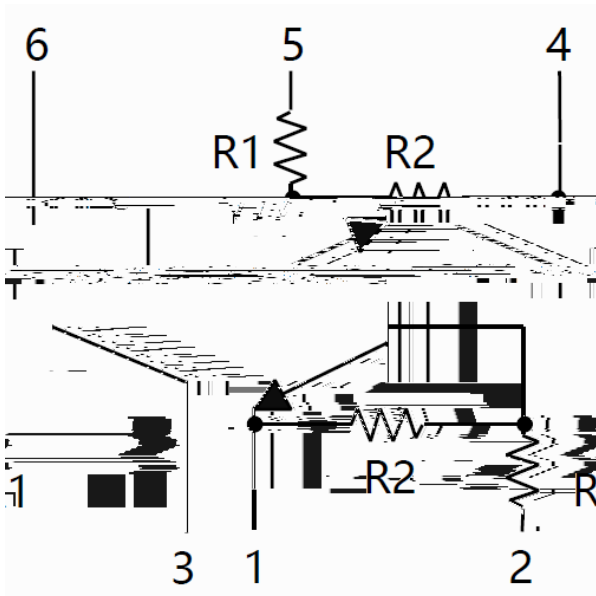
Mechanical Data

Package: SOT-363

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Marking:H10

Equivalent circuit





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Maximum Ratings (Ta=25 Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V_{CC}	V		50
Input Voltage	V_{IN}	V		-5 to +12
Output Current	I_o	mA		100
Power Dissipation	P_D	mW		150
Junction Temperature Single	T_j			150
Storage Temperature	T_{STG}			-55 to +150

Electrical Characteristics (Ta=25 unless otherwise specified)

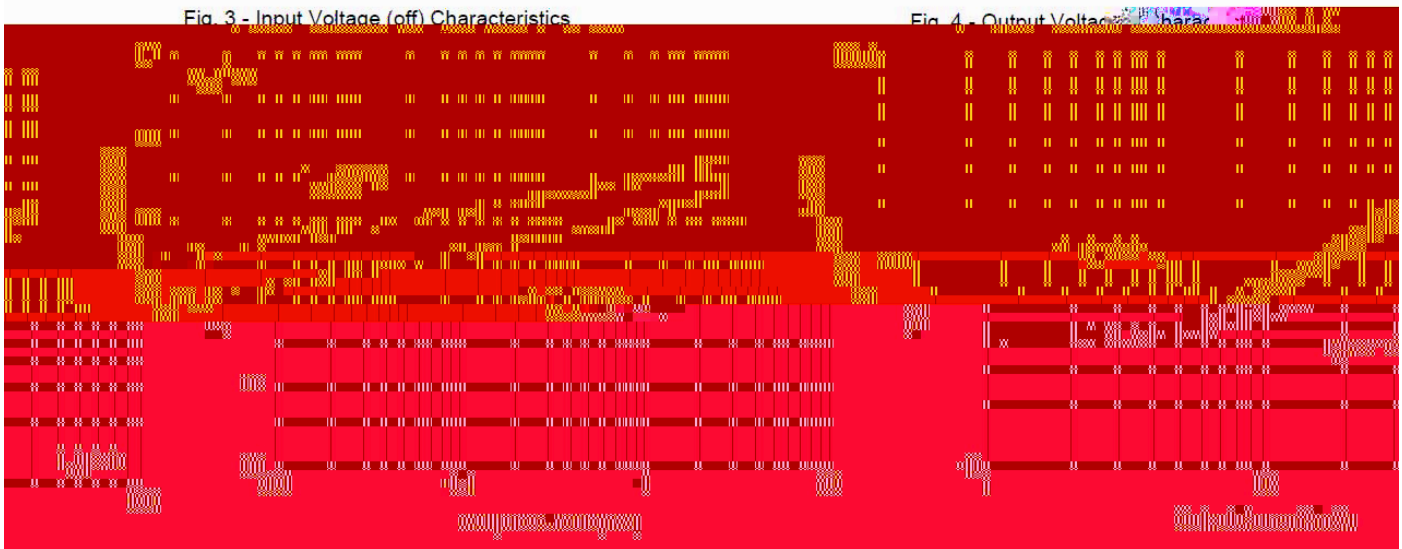
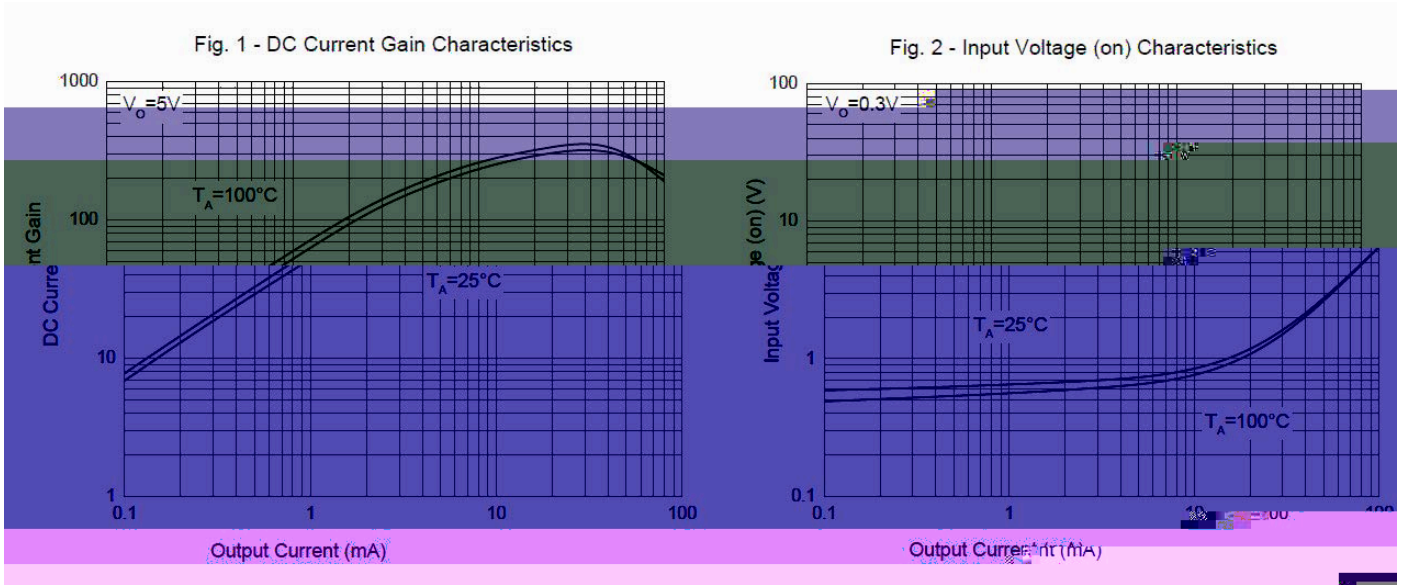
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	$V_{I(off)}$	V	$V_{CC}=5V, I_c=100\mu A$	0.5	-	-
	$V_{I(on)}$	V	$V_o=0.3V, I_c=5mA$	-	-	1.1
Output voltage	$V_{O(on)}$	V	$I_o / I_i = 5mA / 0.25 mA$	-	-	0.3
Input current	I_i	mA	$V_i=5V$	-	-	3.6
Output current	$I_{O(off)}$	μA	$V_{CC}=50V, V_i=0$	-	-	0.5
DC current gain	G_i		$V_o=5V, I_o = 10mA$	80	-	-
Input resistance	R_1	k		1.54	2.2	2.86
Resistance ratio	R_2/R_1			17	21	26
Transition frequency	f_T	MHz	$V_{CE}=10V, I_E=5mA, f=100MHz$	-	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
UMH10N	F2	Approximate 0.009g	3000	30000	120000	7" reel



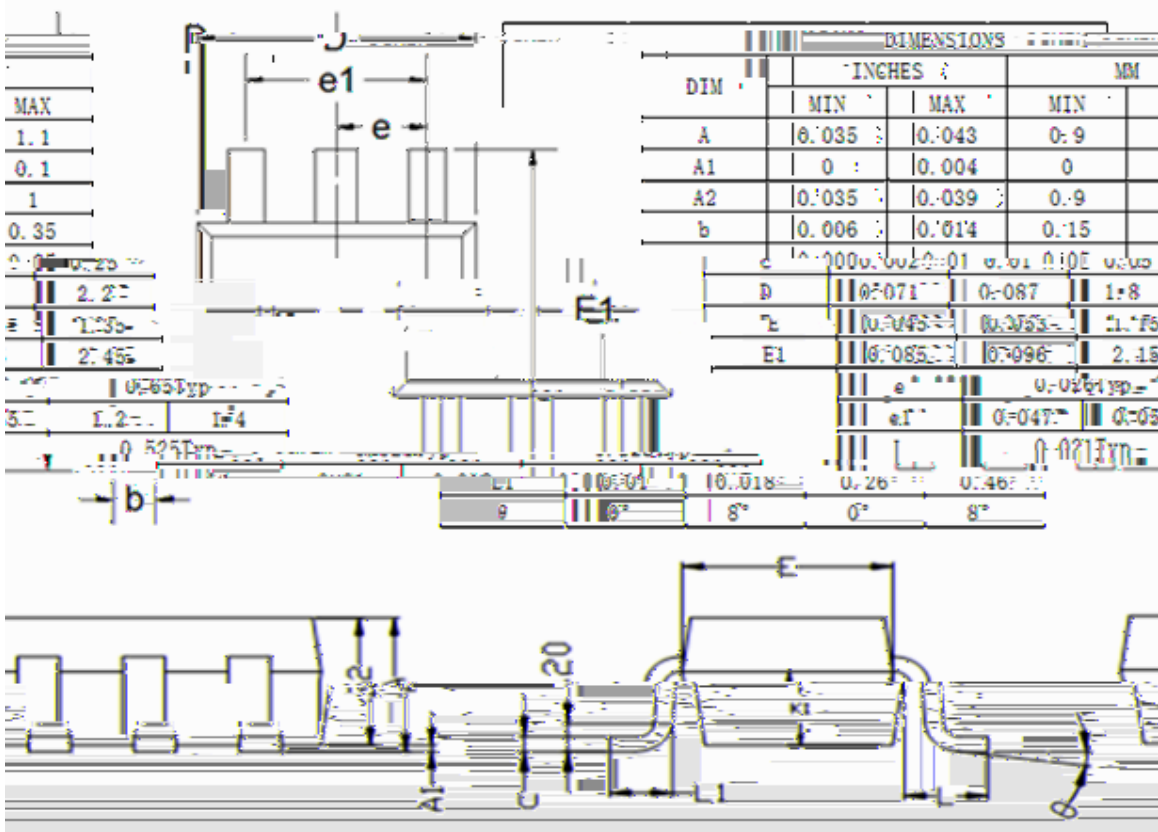
Characteristics (Typical)



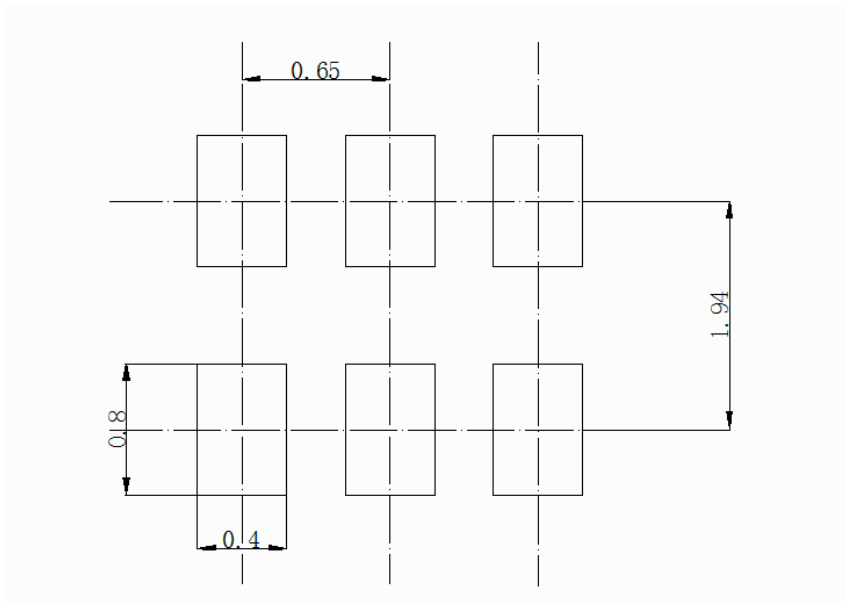


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SOT-363 Package Outline Dimensions



SOT-363 Suggested Pad Layout





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Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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