

Features

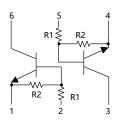
- Two DTC124E Chip In a Package
- Mounting Possible With SOT-363 Automatic Mounting Machines
- Transistor Elements Independent, Eliminating Interference
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

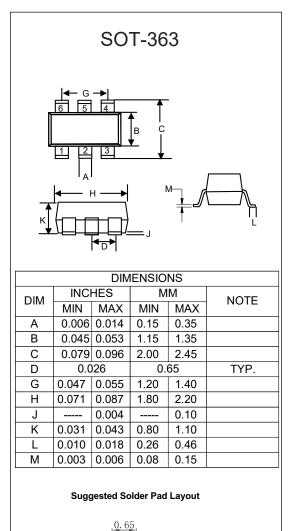
Parameter	Symbol	Value	Unit
Supply Voltage	V _{cc}	50	V
Input Voltage	V _{IN}	-10~40	V
Outrast Ourread	Ι _ο	30	mA
Output Current	I _{C(Max)}	100	mA
Power Dissipation	P _D	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{stg}	-55~150	°C

Device Marking: H1

Internal Structure



Dual NPN Digital Transistor



0 40

Rev.3-1-01012019

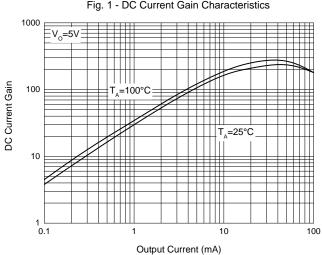


Electrical Characteristics @ 25°C Unless Otherwise Specified

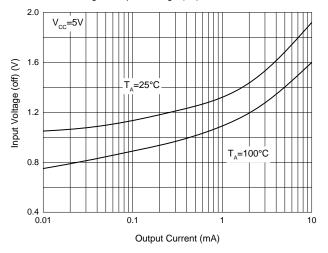
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Input Voltage	V _{I(off)}	0.5			V	V _{CC} =5V, I _O =100µA
	V _{I(on)}			3.0	V	V ₀ =0.2V, I ₀ =5mA
Output Voltage	V _{O(on)}		0.1	0.3	V	I _O =10mA,I _I =0.5mA
Input Current	I _I			0.36	mA	V _I =5V
Output Current	I _{O(off)}			0.5	μA	V _{CC} =50V, V _I =0
DC Current Gain	Gı	56				$V_0=5V, I_0=5mA$
Input Resistance	R ₁	15.4	22	28.6	KΩ	
Resistance Ratio	R ₂ /R ₁	0.8	1.0	1.2		
Transition Frequency	f _T		250		MHz	V _{CE} =10V, I _E =-5mA, f=100MHz



Curve Characteristics







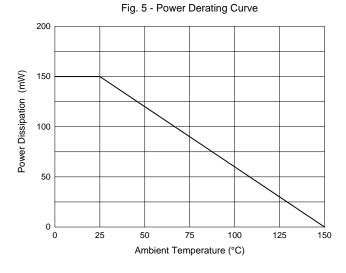


Fig. 1 - DC Current Gain Characteristics

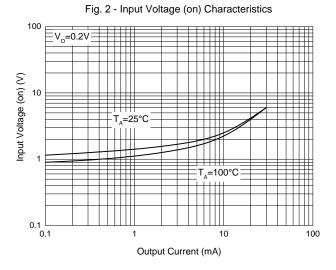
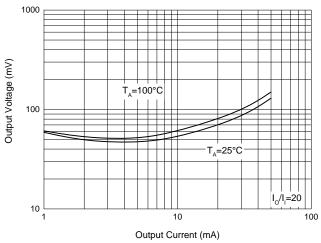


Fig. 4 - Output Voltage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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