



Features

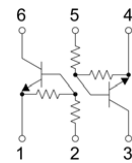
- Two DTC114Y chips in a package
- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HUMH9NTN	SOT-363	H9	3000

SOT-363



Maxmim Ratings (Ta=25 unless otherwise noted)

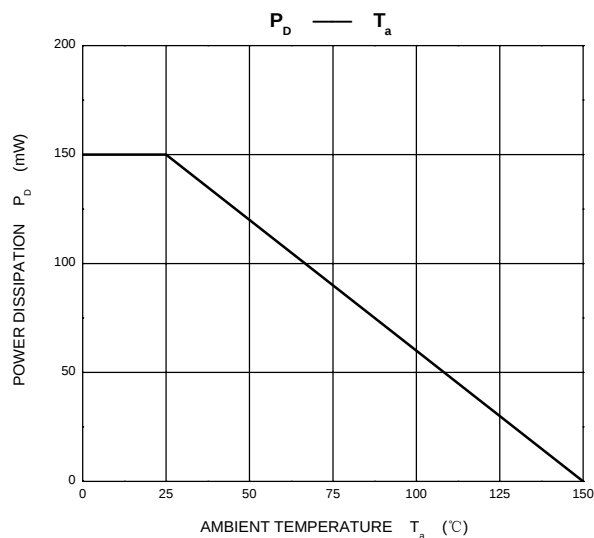
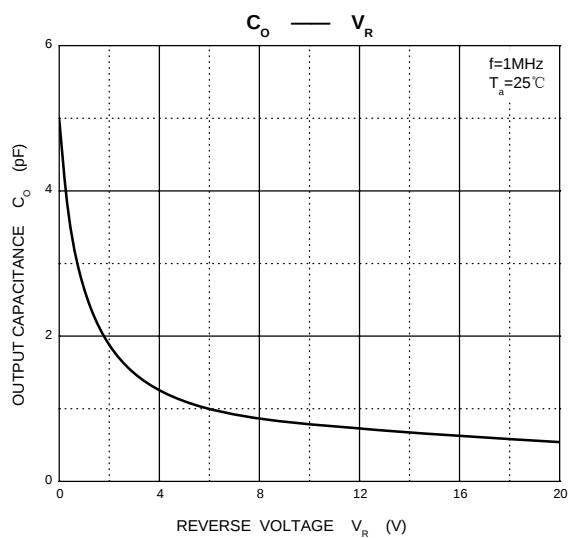
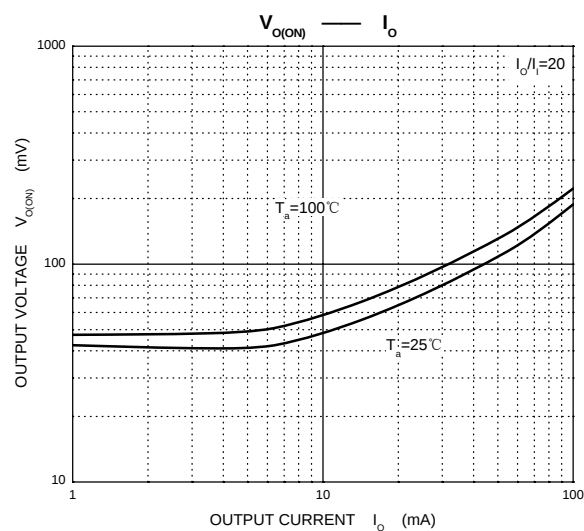
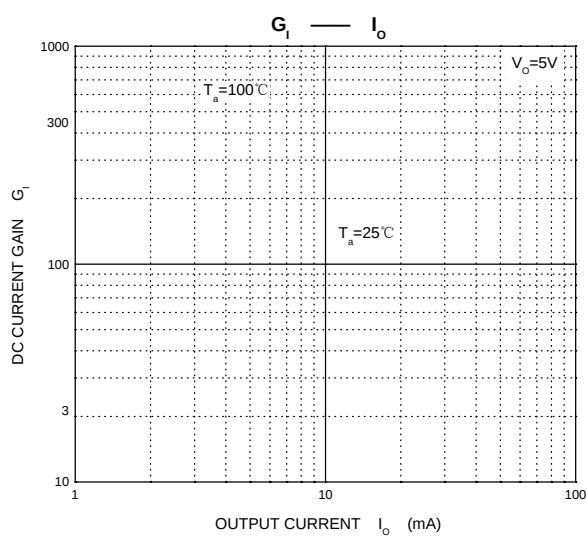
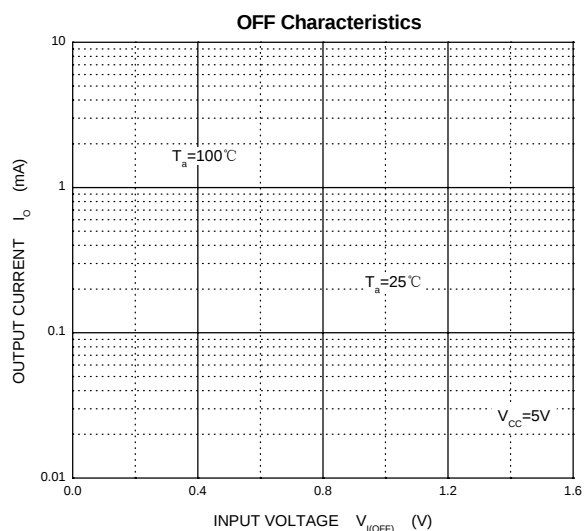
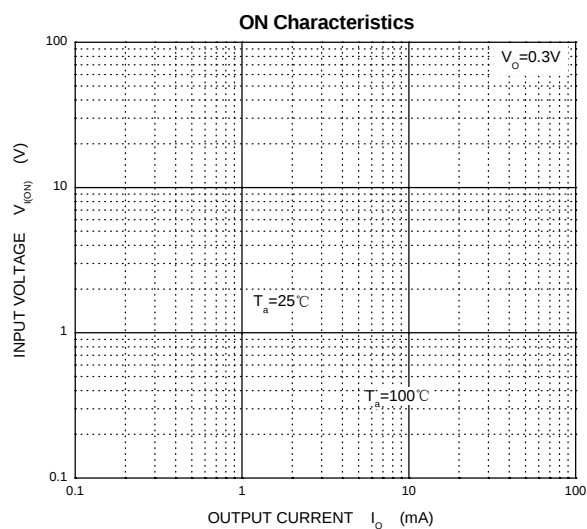
Symbol	Parameter	Limits	Unit
V_{CC}	Supply Voltage	50	V
V_{IN}	Input Voltage	-6 ~ +40	V
I_O	Output Current	70	mA
I_{CM}	Peak Collector Current	100	mA
P_D	Power Dissipation	150	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55 ~ +150	°C

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Input voltage	$V_{I(off)}$	$V_{CC}=5V, I_O=100\mu A$	0.3			V
	$V_{I(on)}$	$V_O=0.3V, I_O=1mA$			1.2	V
Output voltage	$V_{O(on)}$	$I_O/I_I=5mA/0.25mA$			0.3	V
Input current	I_I	$V_I=5V$			0.88	mA
Output current	$I_{O(off)}$	$V_{CC}=50V, V_I=0$			0.5	μA
DC current gain	G_I	$V_O=5V, I_O=5mA$	68			
Input resistance	R_1		7	10	13	k Ω
Resistance ratio	R_2/R_1		3.7	4.7	5.7	
Transition frequency	f_T	$V_O=10V, I_O=-5mA, f=100MHz$		250		MHz

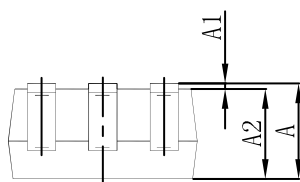
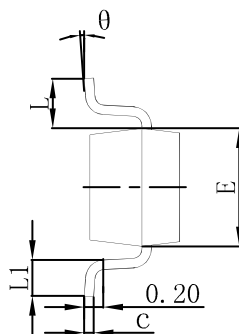
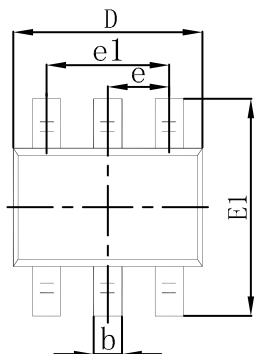


Typical Electrical





SOT-363 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°



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