

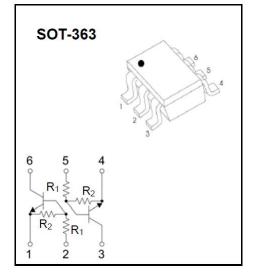
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-UMH9N Digital Transistor (Built-In Resistors)

AD-UMH9N Dual digital transistor (NPN+NPN)

FEATURES

- Two AD-DTC114Y series chips in a package
- Transistor elements are independent, to eliminate the interference
- Mounting cost and area can be cut in half
- AEC-Q101 qualified



MARKING

H9

MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

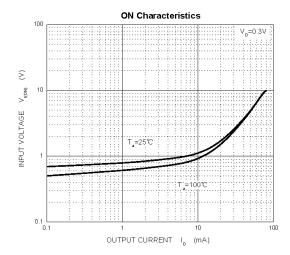
Parameter	Symbol	Value	Unit
Supply voltage	Vcc	50	V
Input voltage	Vin	-6 ~ 40	V
Output current	I _O 1)	70	mA
Peak collector current	Ісм	100	mA
Maximum power dissipation	P _D 1)	150 (total)	mW
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

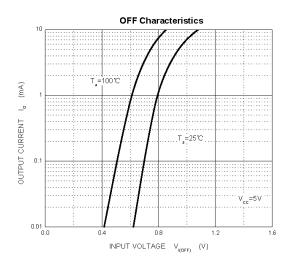
ELECTRICAL CHARACTERISTICS (Tj = 25°C unless otherwise specified)

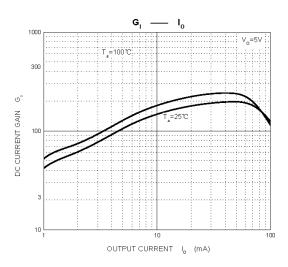
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Input voltage	$V_{I(off)}$	V _{CC} = 5V, I _O = 100μA	0.3	ı	-	V
Input voltage	$V_{l(on)}$	$V_O = 0.3V$, $I_O = 1mA$	ı	ı	1.4	V
Output voltage	$V_{O(on)}$	I _O /I _I = 5mA/0.25mA	ı	ı	0.3	٧
Input current	lı	V _I = 5V	ı	ı	0.88	mA
Output current	I _{O(off)}	V _{CC} = 50V, V _I = 0V	-	-	0.5	μΑ
DC current gain	Gı	V _O = 5V, I _O = 5mA	68	-	-	-
Input resistance	R ₁		7	10	13	kΩ
Resistance ratio	R ₂ /R ₁		3.7	4.7	5.7	
Transition frequency	f⊤	$V_0 = 10V$, $I_0 = 5mA$, $f = 100MHz$	-	250	-	MHz

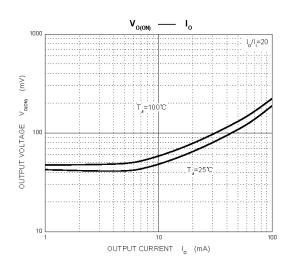
¹⁾ Maximum allowed temperature T_j = 25°C.

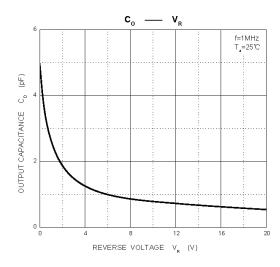
TYPICAL CHARACTERISTICS

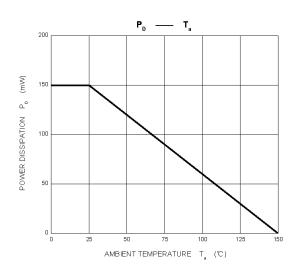




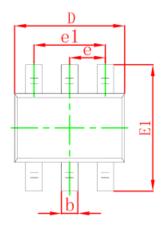


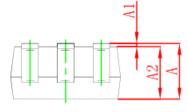


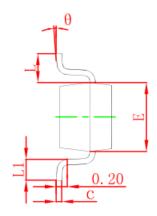




SOT-363 PACKAGE OUTLINE DIMENSIONS

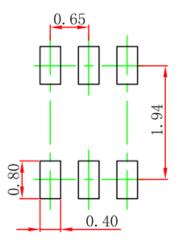






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	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°	

SOT-363 SUGGESTED PAD LAYOUT



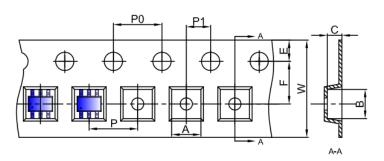
Note:

- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

AD-UMH9N www.jscj-elec.com

SOT-363 TAPE AND REEL

SOT-363 Embossed Carrier Tape

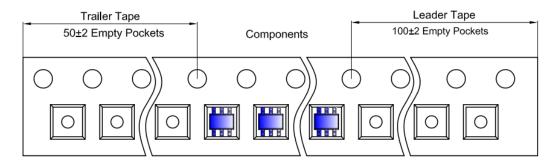


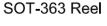
Packaging Description:

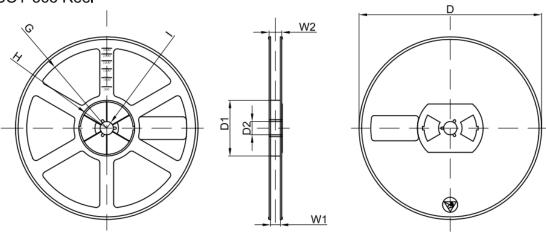
SOT-363 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

				Dimensions a	are in millime	ter				
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-363	2.25	2.55	1.20	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-363 Tape Leader and Trailer







Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"D i a	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

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SMUN5335DW1T2G SMUN5216DW1T1G NSVMUN5316DW1T1G NSVMUN5215DW1T1G NSVMUN5213DW1T3G

NSVMUN2112T1G NSVIMD10AMT1G NSVEMC2DXV5T1G NSVDTC144WET1G NSVDTC123JET1G NSVDTA143EM3T5G

NSVB1706DMW5T1G NSBC143EDP6T5G RN2101,LF(CT NSBA144WDXV6T1G DTA115TET1G NSBC115TDP6T5G