JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-UMD9N Digital Transistor (Built-In Resistors)

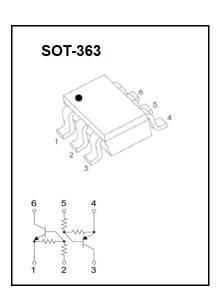
AD-UMD9N Dual digital transistor (NPN+PNP)

FEATURES

- AD-DTA114Y and AD-DTC114Y series chips in a package
- AEC-Q101 qualified

MARKING

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AD-UMD9N

MAXIMUM RATINGS ($T_j = 25^{\circ}C$ unless otherwise specified)

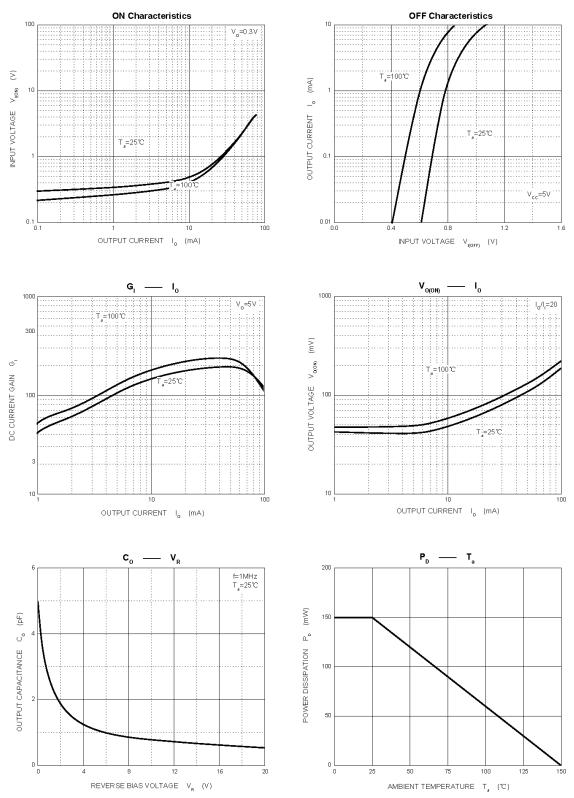
Parameter	Symbol	Value	Unit
Supply voltage	Vcc	50	V
Input voltage	Vin	-6 ~ 40	V
Output current	l ₀ ¹⁾	70	mA
Peak collector current	Ісм	100	mA
Maximum power dissipation	P _D ¹⁾	150 (total)	mW
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

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

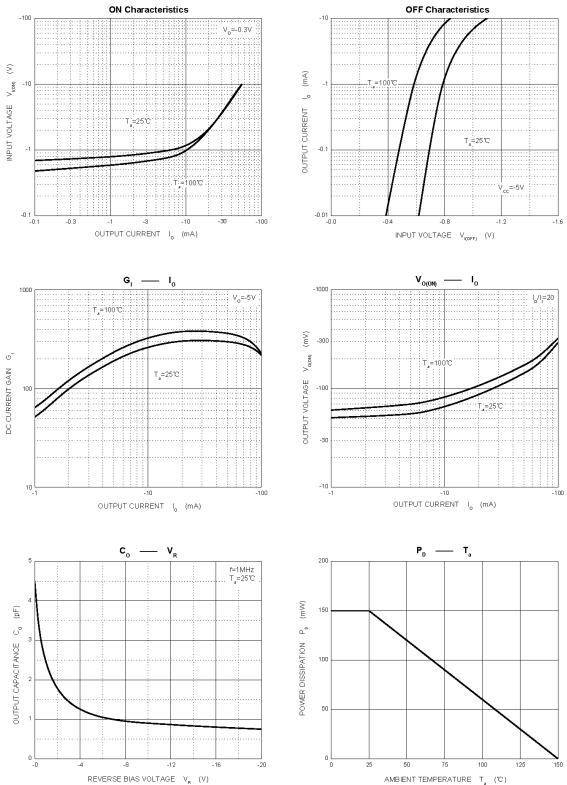
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
	VI(off)	V _{CC} = 5V, I _O = 100µA	0.3	-	-	N
Input voltage	V _{I(on)}	V _O = 0.3V, I _O = 1mA	-	-	1.4	V
Output voltage	V _{O(on)}	I ₀ /I ₁ = 5mA/0.25mA	-	-	0.3	V
Input current	lı lı	V ₁ = 5V	-	-	0.88	mA
Output current	I _{O(off)}	$V_{CC} = 50V, V_1 = 0V$	-	-	0.5	μA
DC current gain	G	Vo = 5V, Io = 5mA	68	-	-	-
Input resistance	R1		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 $T_j = 25^{\circ}C$.

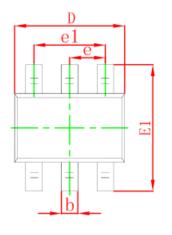
AD-DTC114Y



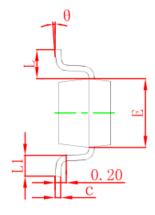
AD-DTA114Y



www.jscj-elec.com SOT-363 PACKAGE OUTLINE DIMENSIONS

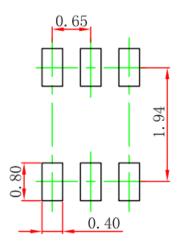






Symbol	Dimensions	In Millimeters	Dimension	s In Inches
Symbol	Min	Max	Min	Max
Α	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
С	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650	0.650 TYP		S 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

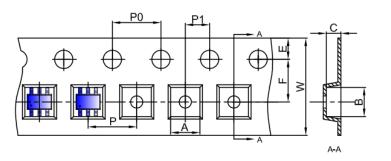


Note:

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

SOT-363 TAPE AND REEL

SOT-363 Embossed Carrier Tape

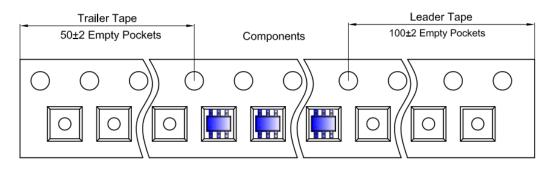


Packaging Description:

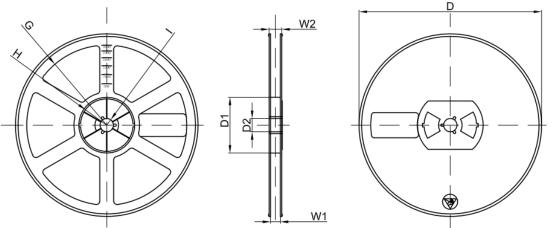
SOT-363 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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 are in millimeter										
Pkg type	А	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



SOT-363 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	н	I	W1	W2
7"Dia	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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