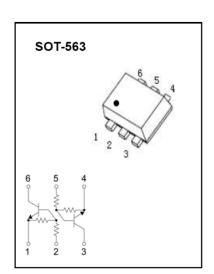
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-EMH11 Digital Transistor (Built-in Resistors)

AD-EMH11 Dual Digital Transistor (NPN + NPN)

FEATURES

- Two AD-DTC114E chips are built-in a package
- Mounting possible with SOT-563 automatic mounting machines
- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half
- AEC-Q101 qualified



MARKING : H11

AD-EMH11

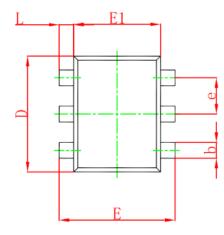
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

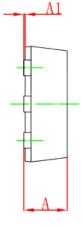
Parameter	Symbol	Value	Unit
Supply voltage	Vcc	50	V
Input voltage	V _{IN}	-10~40	V
Output ourrent	lo	50	m 4
Output current	IC(MAX)	100	mA
Power dissipation	PD	150	mW
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

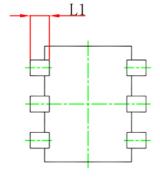
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

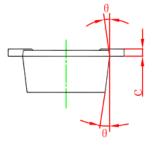
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Input veltage	VI(OFF)	$V_{CC} = 5V, I_{O} = 100 \mu A$	0.5	-	-	V
Input voltage	VI(ON)	Vo = 0.3V, Io = 10mA	-	-	3	V
Output voltage	V _{O(ON)}	I ₀ /I _I = 10mA/0.5mA	-	-	0.3	V
Input current	h	V1 = 5V	-	-	0.88	mA
Output current	I _{O(OFF)}	$V_{CC} = 50V, V_1 = 0V$	-	-	0.5	μA
DC current gain	G	Vo = 5V, Io = 5mA	30	-	-	-
Input resistance	R ₁	-	7	10	13	ΚΩ
Resistance ratio	R ₂ /R ₁	-	0.8	1	1.2	-
Transition frequency	Fτ	V _{CE} = 10V, f = 100MHz, I _E = 5mA	-	250	-	MHz

SOT-563 PACKAGE OUTLINE DIMENSIONS



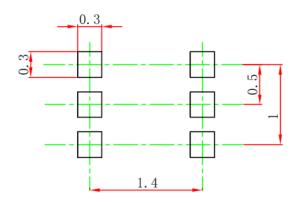






Symbol	Dimensions	n Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
A	0.525	0.600	0.021	0.024	
A1	0.000	0.050	0.000	0.002	
е	0.450	0.550	0.018	0.022	
с	0.090	0.160	0.004	0.006	
D	1.500	1.700	0.059	0.067	
b	0.170	0.270	0.007	0.011	
E1	1.100	1.300	0.043	0.051	
Е	1.500	1.700	0.059	0.067	
L	0.100	0.300	0.004	0.012	
L1	0.200	0.400	0.008	0.016	
θ		7 ⁰ REF.		7 ⁰ REF.	

SOT-563 SUGGESTED PAD LAYOUT

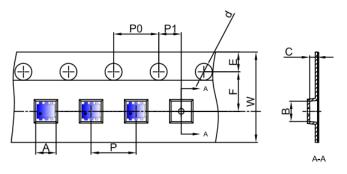


Note:

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

SOT-563 TAPE AND REEL

SOT-563 Embossed Carrier Tape

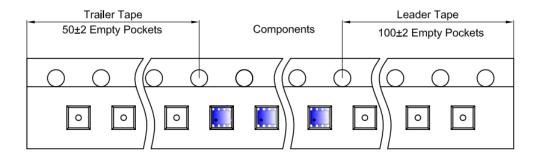


Packaging Description:

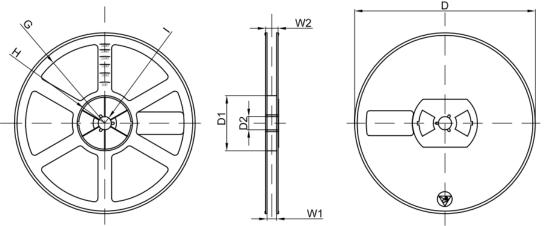
SOT-563 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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-563	1.78	1.78	0.69	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-563 Tape Leader and Trailer



SOT-563 Reel



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

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD. 13th Floor, C Block, Tengfei Building, Yan Chuang Yuan, Nanjing Jiangbei New Area, China

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