

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

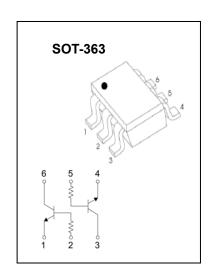
Digital Transistors (Built-in Resistors)

UMH3N

Dual Digital Transistors (NPN+NPN)

FEATURES

- Two DTC143T chips in a package
- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half



MARKING:H3

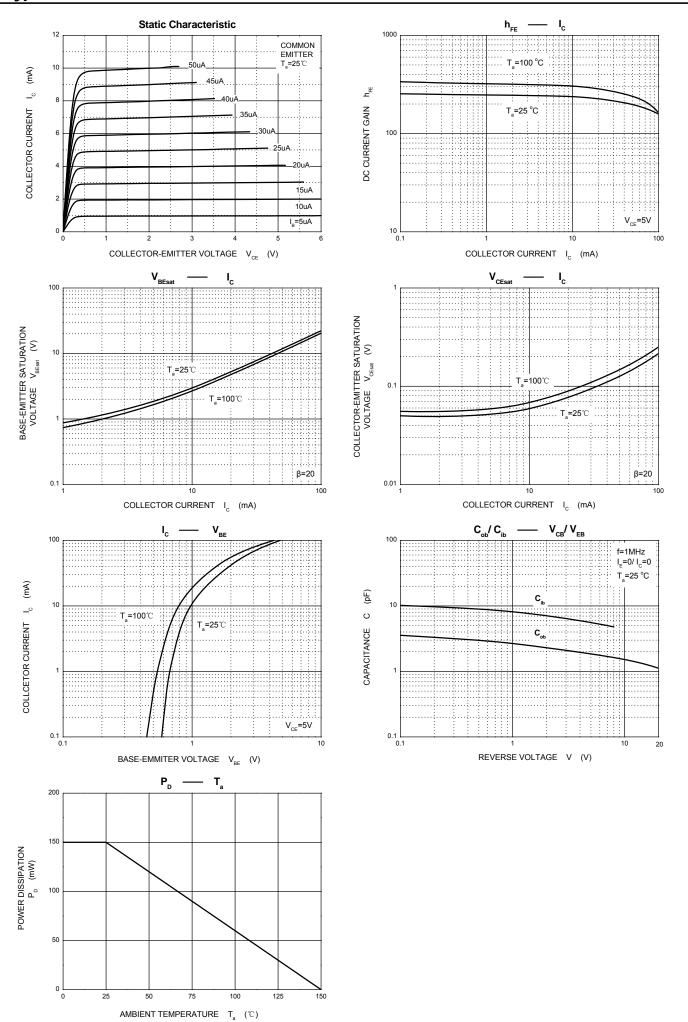
Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Value	Units	
Collector-base voltage	V _{(BR)CBO}	50	V	
Collector-emitter voltage	V _{(BR)CEO}	50	V	
Emitter-base voltage	$V_{(BR)EBO}$	5	V	
Collector current	Ic	100	mA	
Collector Power dissipation	Pc	150	mW	
Junction temperature	Tj	150	$^{\circ}$	
Storage temperature	Tstg	-55~150	$^{\circ}$	

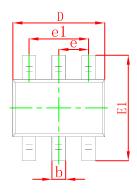
Electrical characteristics (Ta=25°C)

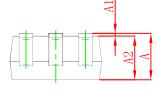
Parameter	Symbol	Min.	Тур	Max.	Unit	Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	50			V	Ic=50μA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	50			٧	Ic=1mA
Emitter-base breakdown voltage	$V_{(BR)EBO}$	5			٧	I _E =50μΑ
Collector cut-off current	I _{CBO}			0.5	μA	V _{CB} =50V
Emitter cut-off current	I _{EBO}			0.5	μA	V _{EB} =4V
Collector-emitter saturation voltage	V _{CE(sat)}			0.3	٧	I_C =5mA, I_B =0.25mA
DC current transfer ratio	h_FE	100		600		V_{CE} =5 V , I_{C} =1 mA
Input resistance	R ₁	3.29	4.7	6.11	ΚΩ	
Transition frequency	f⊤		250		MHz	V_{CE} =10V , I_{E} =-5mA, f =100MHz

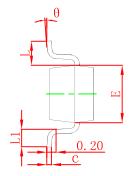
Typical Characteristics



SOT-363 Package Outline Dimensions

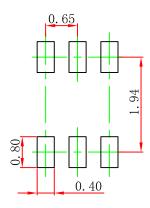






Symbol	Dimensions	In Millimeters	Dimensions In Inches			
Зушьог	Min	Max	Min	Max		
Α	0.900	1.100	0.035	0.043		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.000	0.035	0.039		
b	0.150	0.350	0.006	0.014		
С	0.080	0.150	0.003	0.006		
D	2.000	2.200	0.079	0.087		
E	1.150	1.350	0.045	0.053		
E1	2.150	2.450	0.085	0.096		
е	0.650	0.650 TYP		S TYP		
e1	1.200	1.400	0.047	0.055		
Ĺ	0.525	REF	0.021	I REF		
L1	0.260	0.460	0.010	0.018		
θ	0°	8°	0°	8°		

SOT-363 Suggested Pad Layout



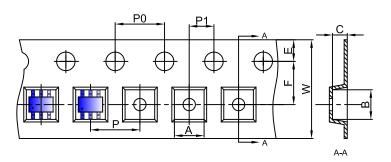
Note:

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

NOTICE

JCET reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JCET does not assume any liability arising out of the application or use of any product described herein.

SOT-363 Embossed Carrier Tape

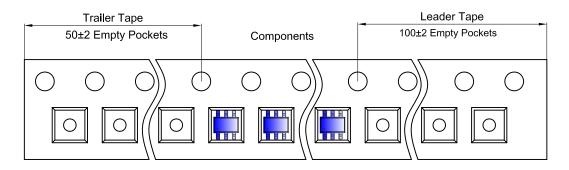


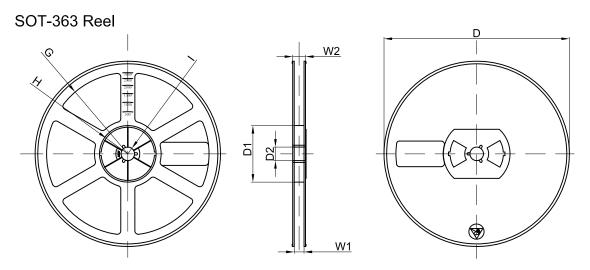
Packaging Description:

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 A B C d E F P0 P P1 W								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	Reel Option D D1 D2 G H 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	