

Features

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

6 5 4 1 2 3

SOT-363



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RN1910,LF	SOT-363	НЗ	3000

Maxmim Ratings (Ta=25 unless otherwise noted)

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	°C	
Storage temperature	Tstg	-55~150	°C	

Electrcal Charcteristics (Ta=25 unless otherwise specified)

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			V	Ic=1mA
Emitter-base breakdown voltage	V _{(BR)EBO}	5			V	I _E =50μA
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		$V_{CE}=5V,I_{C}=1mA$
Input resistance	R ₁	3.29	4.7	6.11	ΚΩ	
Transition frequency	f⊤		250		MHz	V_{CE} =10V , I_{E} =-5mA, f =100MHz

T_a=100 °C

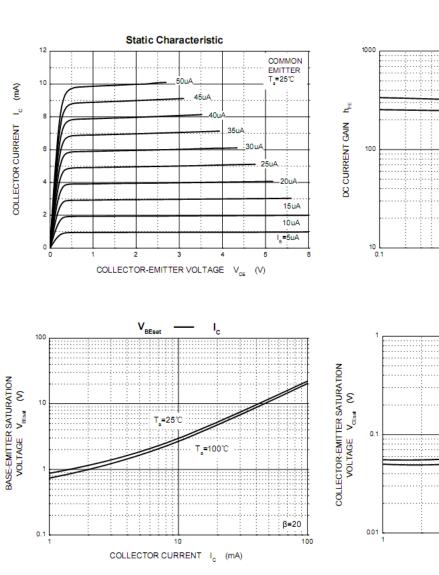
T_a=25 °C

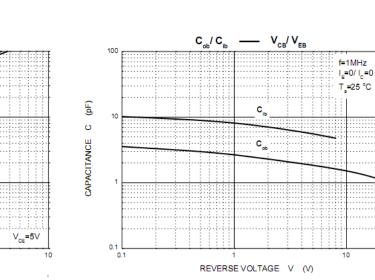
COLLECTOR CURRENT I_c (mA)

COLLECTOR CURRENT I_c (mA)



Typical Electrical





T_=100°C

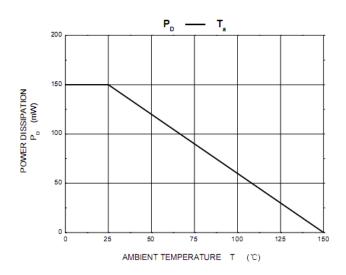
T_=25℃

BASE-EMMITER VOLTAGE V_{SE} (V)

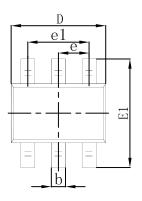
100

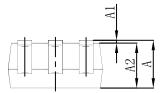
COLLCETOR CURRENT I_c (mA)

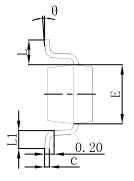
β=20



SOT-363 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	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°	



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