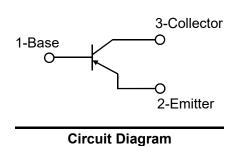
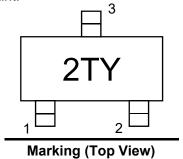


Feature

➤ This device is Pb-Free, Halogen Free/BFR Free and Rohs compliant.





Mechanical Characteristics

➤ Lead finish:100% matte Sn(Tin)

➤ SOT-23 without plating

> Mounting position: Any

Qualified max reflow temperature:260°C

➤ Device meets MSL 1 requirements

➤ Pure tin plating: 7 ~ 17 um

➤ Pin flatness:≤3mil

Electrical characteristics per line@25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA , I _E = 0	-40	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	$I_C = -1 \text{mA}$, $I_B = 0$	-25	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	$I_{E} = -100 \mu A$, $I_{C} = 0$	-5	-	-	V
Collector cut-off current	I _{CEO}	$V_{CE} = -20V, I_{B} = 0$	-	-	-100	nA
Collector cut-off current	I _{CBO}	V _{CB} = -40V , I _E = 0	-	-	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -3V$, $I_C = 0$	-	-	-100	nA
DC current gain	h _{FE(1)}	$V_{CE} = -1V$, $I_{C} = -50 \text{mA}$	120	-	400	
DC current gain	h _{FE(2)}	V _{CE} = -1V , I _C = -500mA	50	-	-	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500mA , I _B = -50mA	-	-	-0.6	\
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -500mA , I _B = -50mA	-	-	-1.2	V
Transition frequency	f _T	$V_{CE} = -6V , I_{C} = -20mA ,$ f = 30MHz	150	-	-	MHz

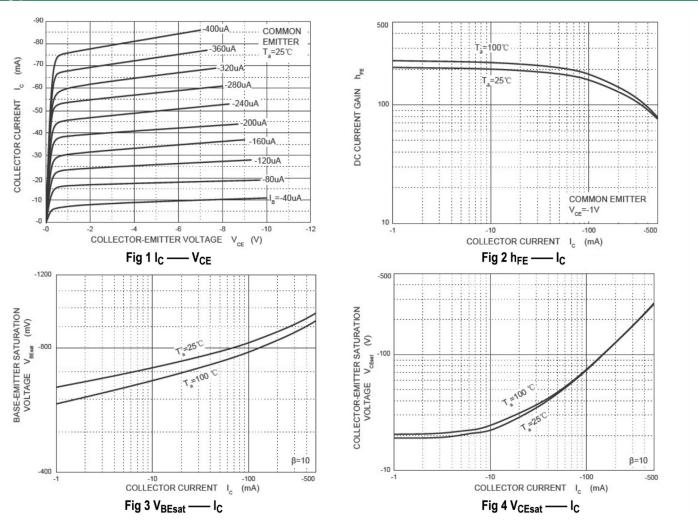
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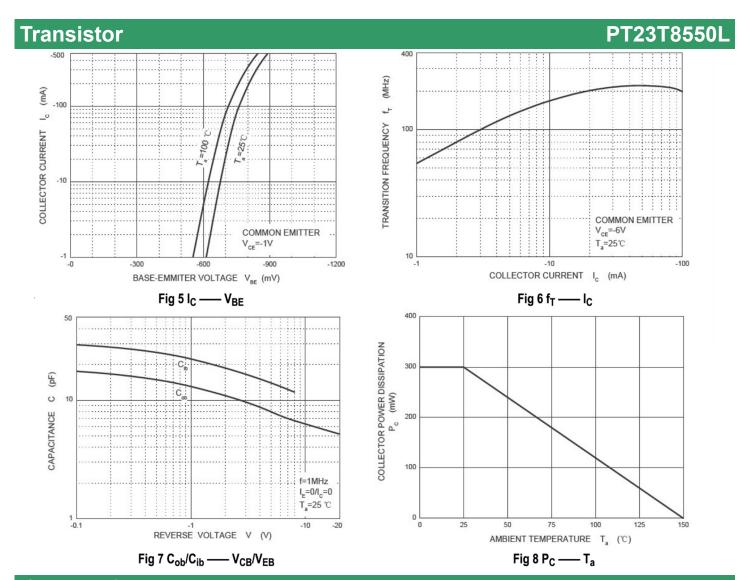
Transistor PT23T8550L

Absolute maximum rating@25°C

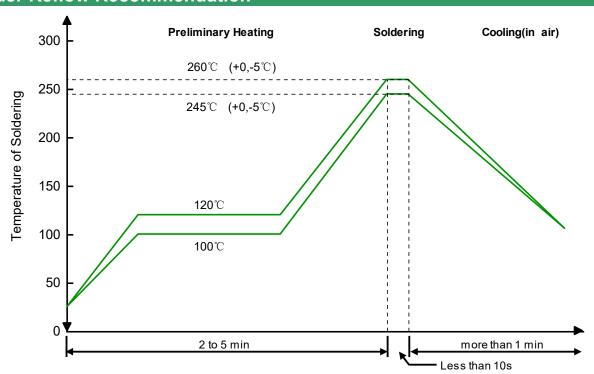
Parameter	Symbol	Value	Units
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _c	-500	mA
Collector Power Dissipation	P _C	300	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	417	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Typical Characteristics





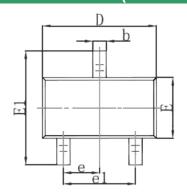
Solder Reflow Recommendation

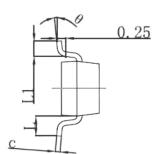


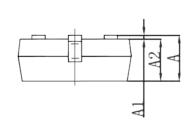
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Transistor PT23T8550L

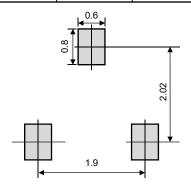
Product dimension (SOT-23)







Dim	Millim	neters	Inches		
Dim	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 Typ.		0.037 Typ.		
e1	1.800	2.000	0.071	0.079	
L	0.550 Ref.		0.022 Ref.		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	



Unit:mm

Suggested PCB Layout

Ordering information

Device	Package	Reel	Shipping
PT23T8550L	SOT-23 (Pb-Free)	7"	3000 / Tape & Reel

Transistor PT23T8550L

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