



SOT-89 Plastic-Encapsulate Transistors

SS8550

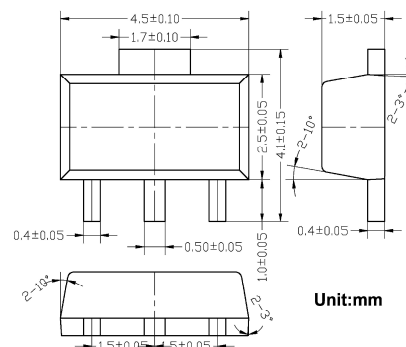
PNP Transistors

Features

■ Power Dissipation

P_C : 1W ($T_a = 25^\circ\text{C}$)

Marking: Y2



1. Base

2. Collector

3. Emitter

Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector Base Voltage	-40	V
V_{CEO}	Collector Emitter Voltage	-25	V
V_{EBO}	Emitter Base Voltage	-5	V
I_C	Collector Current	-1.2	A
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

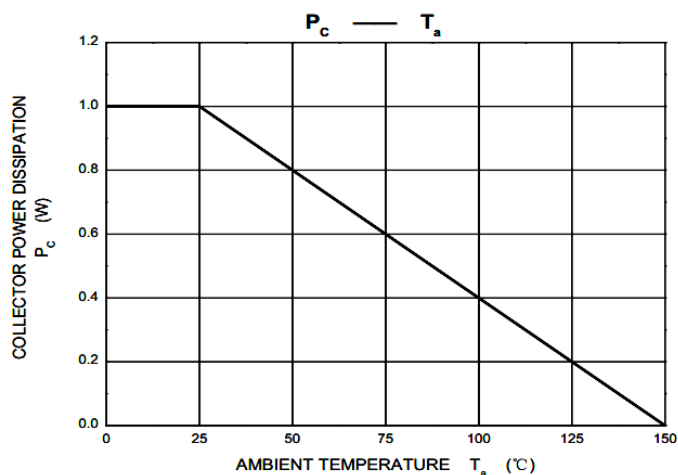
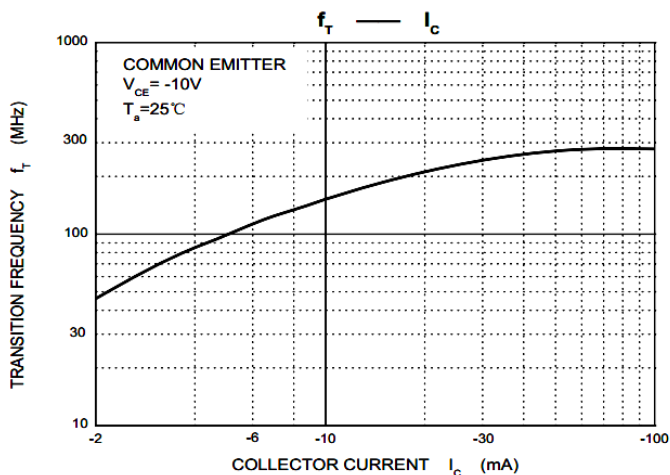
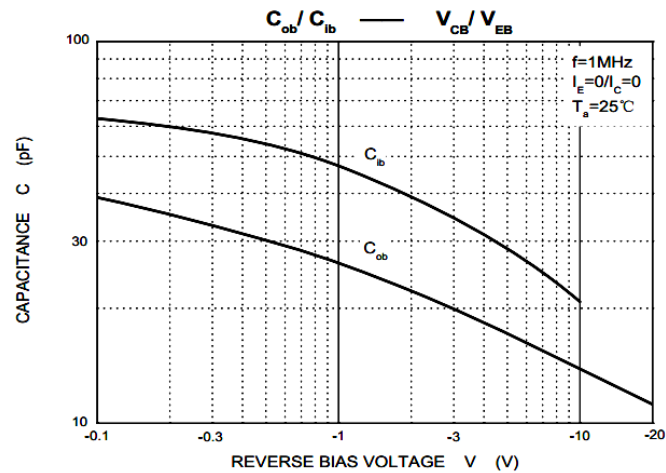
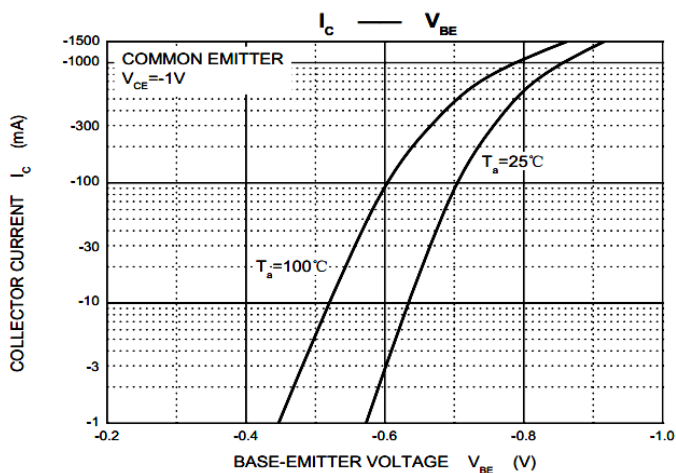
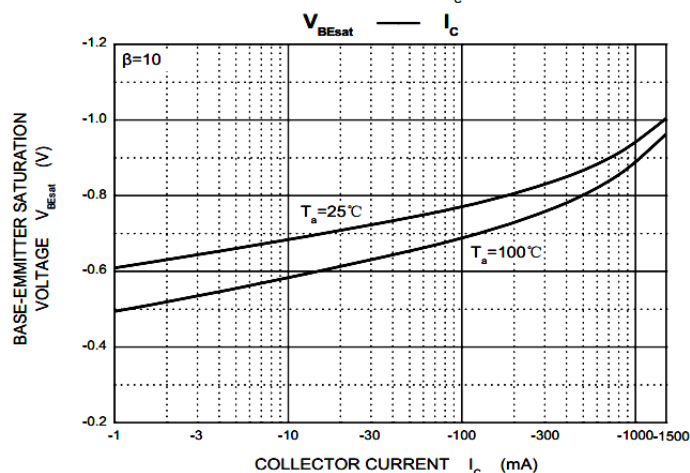
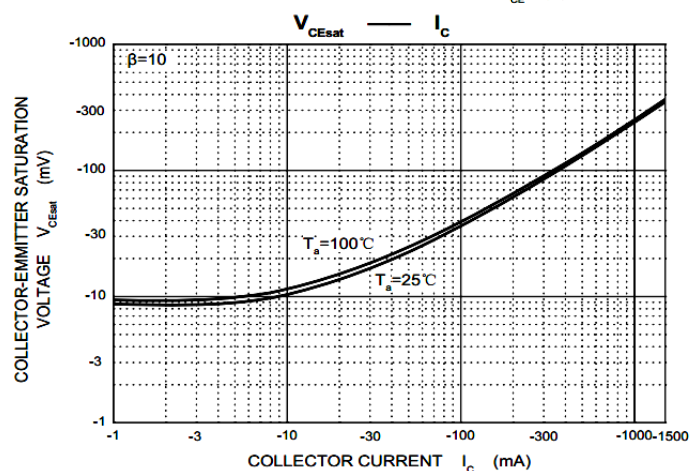
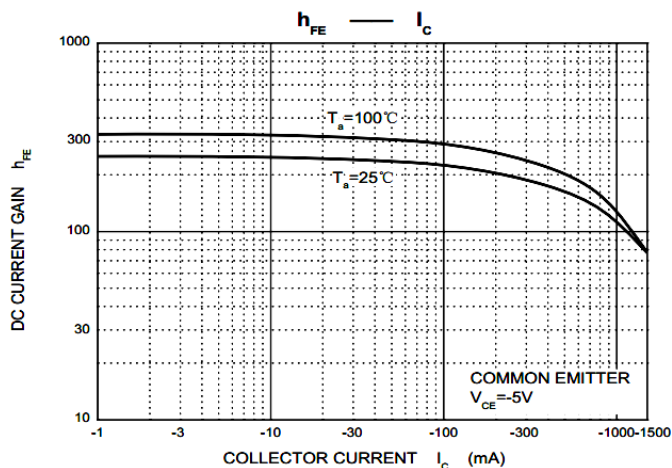
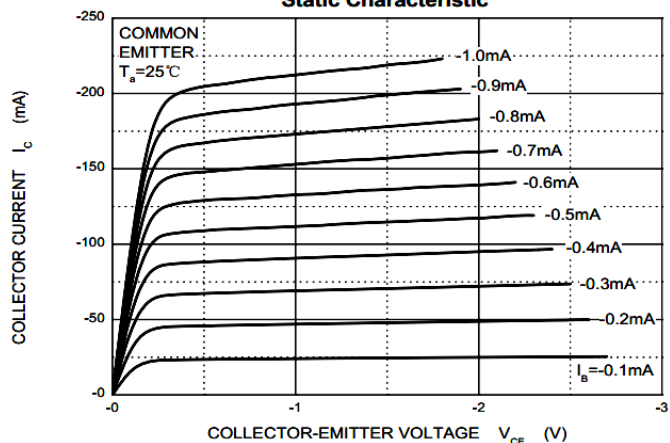
Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -100\mu\text{A}$, $I_E = 0$	-40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -0.1\text{mA}$, $I_B = 0$	-25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu\text{A}$, $I_C = 0$	-5			V
I_{CBO}	Collector cut-off current	$V_{CB} = -40\text{V}$, $I_E = 0$			-100	nA
I_{CEO}	Collector cut-off current	$V_{CE} = -20\text{V}$, $I_B = 0$			-100	nA
I_{EBO}	Emitter cut-off current	$V_{EB} = -5\text{V}$, $I_C = 0$			-100	nA
$h_{FE(1)}$ $h_{FE(2)}$	DC current gain	$V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$ $V_{CE} = -1\text{V}$, $I_C = -800\text{mA}$	200 40		350	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$			-0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$			-1.2	V
$V_{BE(on)}$	Base-emitter on voltage	$V_{CE} = -1\text{V}$, $I_C = -10\text{mA}$			-1	V
C_{ob}	Out capacitance	$V_{CB} = -10\text{V}$, $I_E = 0\text{mA}$, $f = 1\text{MHz}$			20	pF
f_T	Transition frequency	$V_{CE} = -10\text{V}$, $I_C = -50\text{mA}$, $f = 30\text{MHz}$	100			MHz



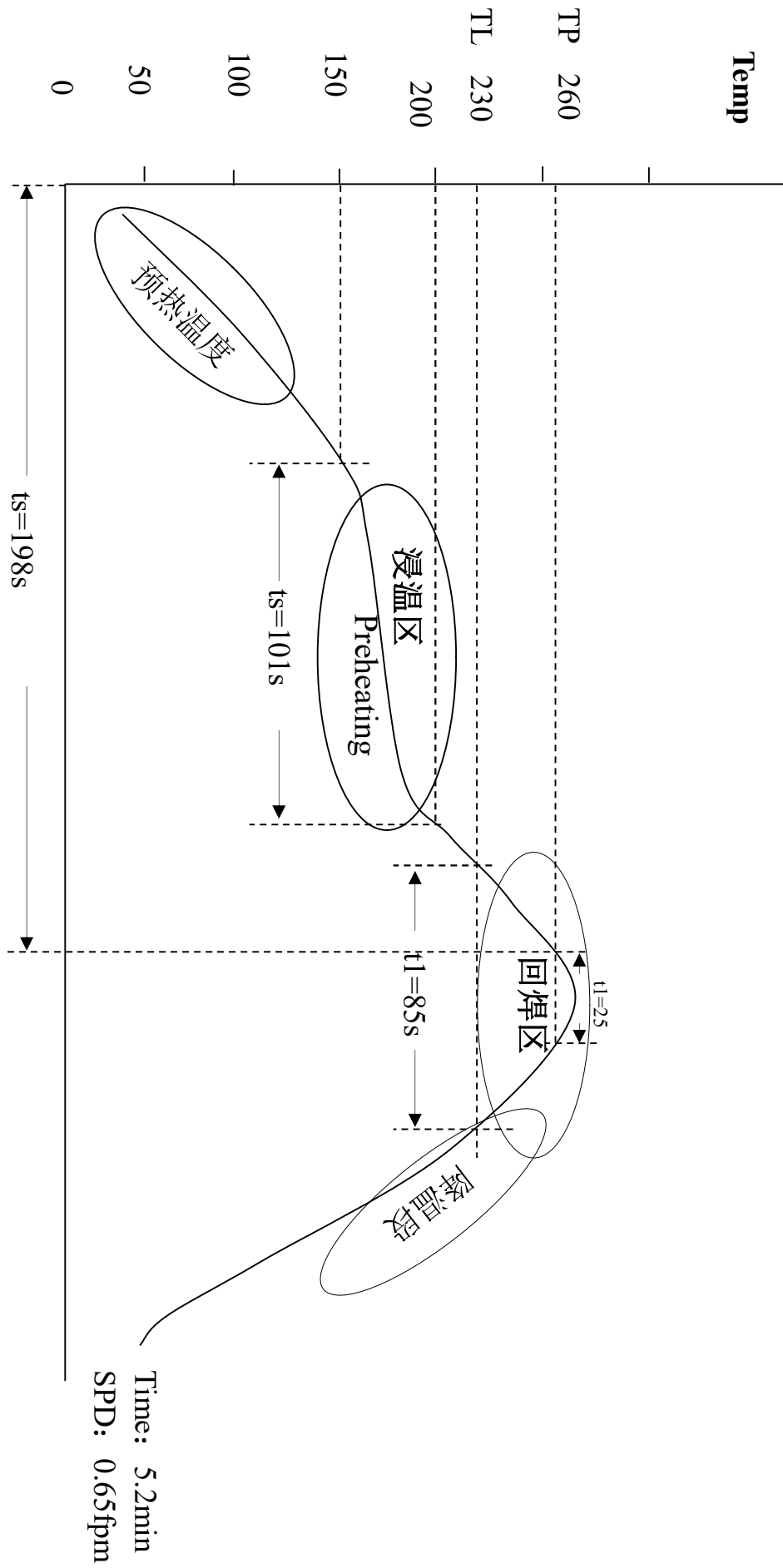
Typical Characteristics

Static Characteristic



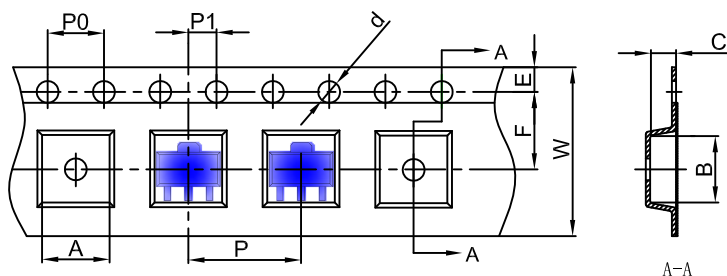


IR—Reflow Profile



SOT-89 Tape and Reel

SOT-89 Embossed Carrier Tape

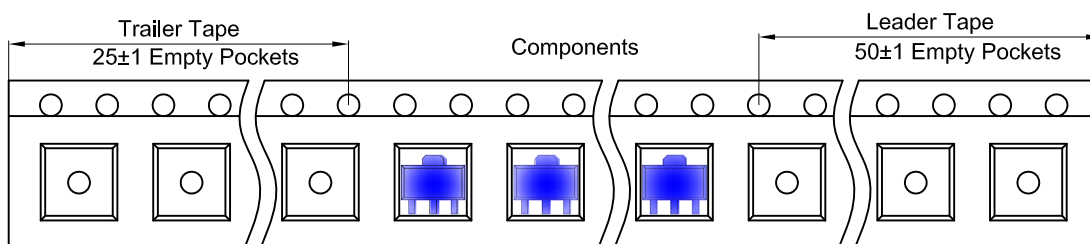


Packaging Description:

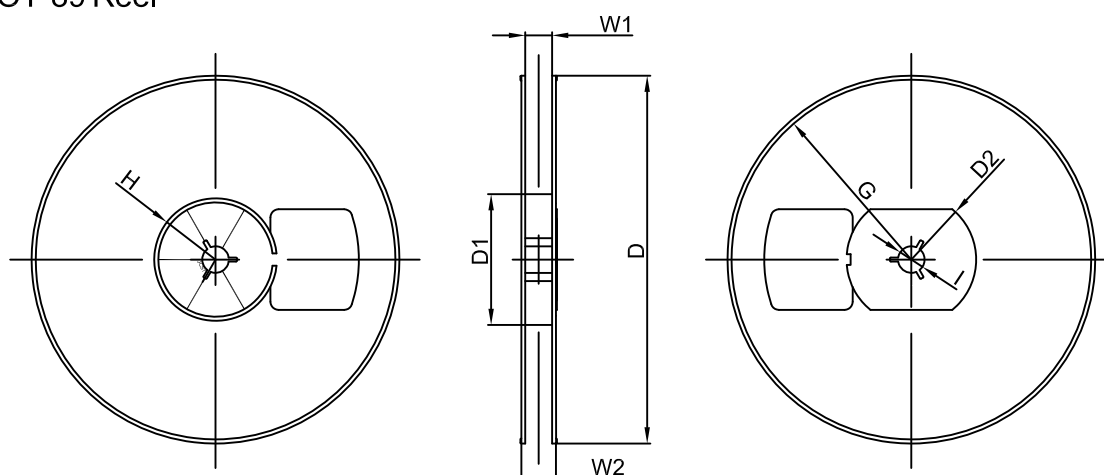
SOT-89 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 1,000 units per 7" or 18.0 cm 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
SOT-89-3L	4.85	4.45	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

SOT-89 Tape Leader and Trailer



SOT-89 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50