

TRANSISTOR (PNP)

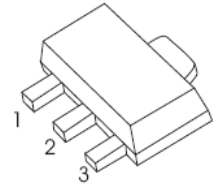
FEATURES

- Switching and Linear Amplification
- High Current and Low Voltage
- Complement to PXT2222A

MARKING :P2F

SOT-89

1. BASE
2. COLLECTOR
3. EMITTER



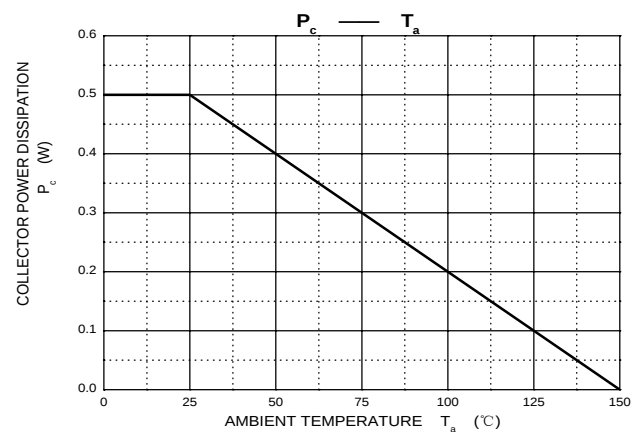
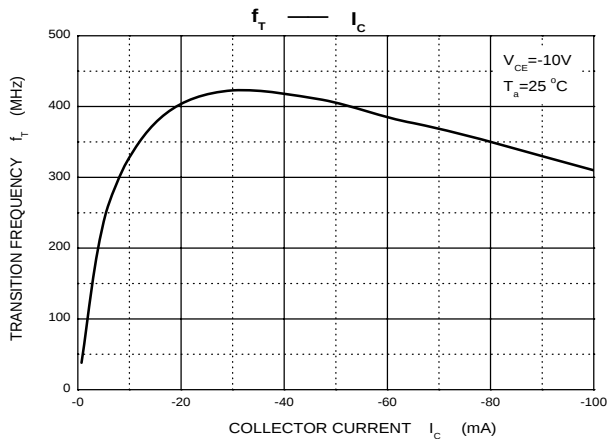
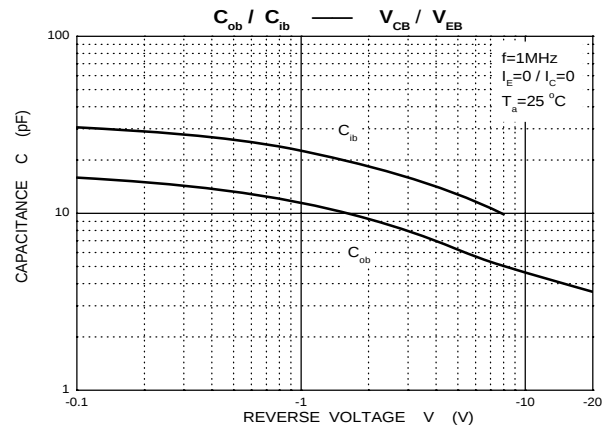
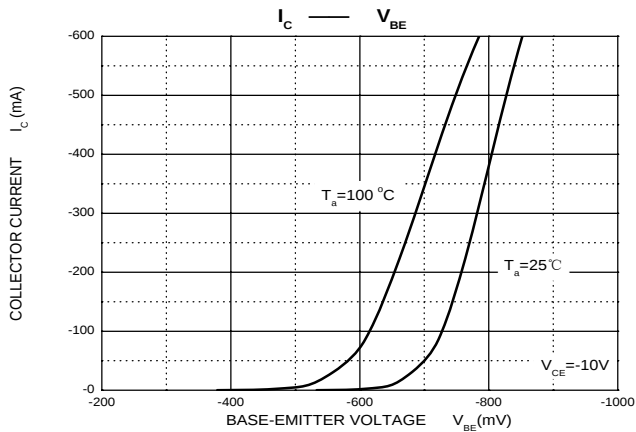
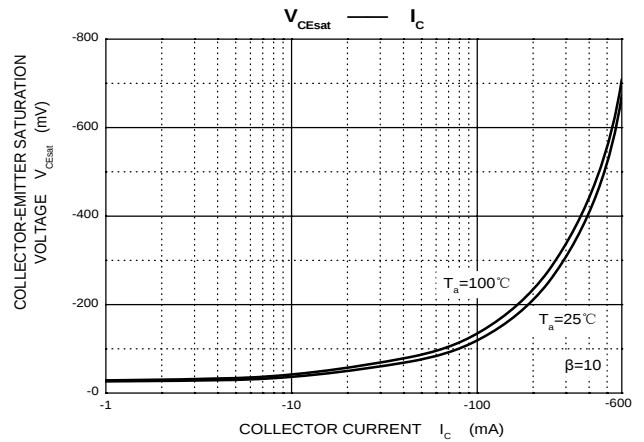
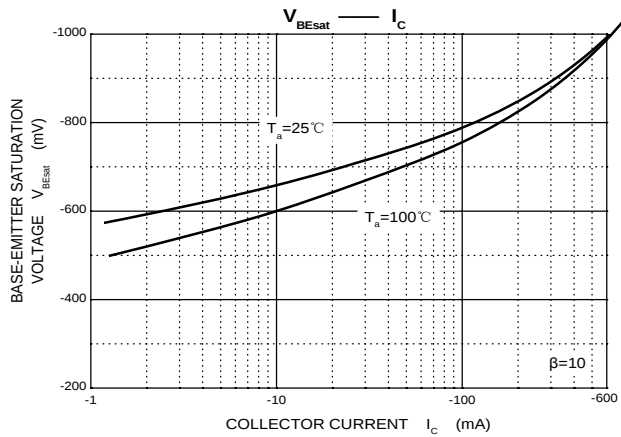
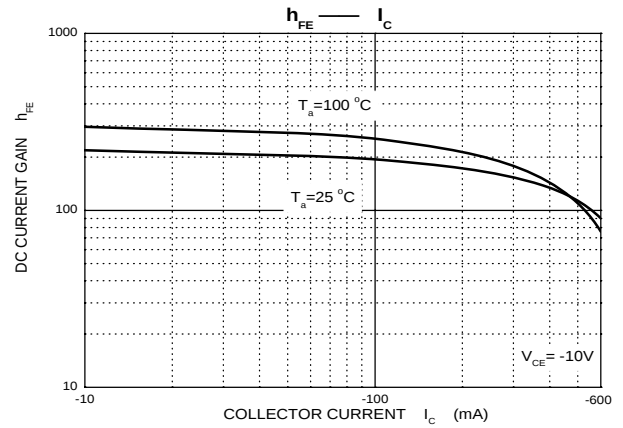
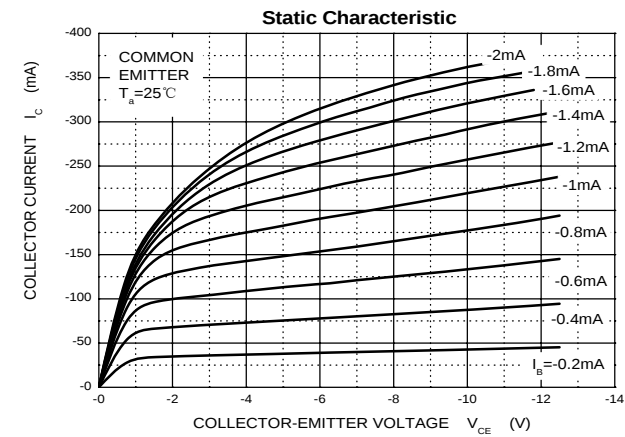
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-600	mA
P_C	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	250	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

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

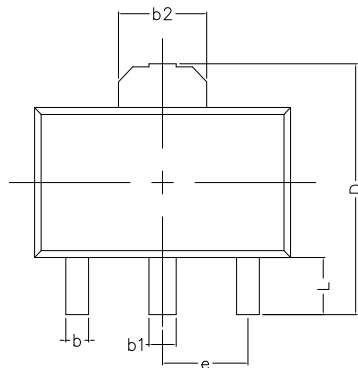
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-1\text{mA}, I_E=0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-1\text{mA}, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50\text{V}, I_E=0$			-0.01	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$			-0.01	μA
DC current gain	h_{FE}	$V_{CE}=-10\text{V}, I_C=-0.1\text{mA}$	75			
		$V_{CE}=-10\text{V}, I_C=-1\text{mA}$	100			
		$V_{CE}=-10\text{V}, I_C=-10\text{mA}$	100			
		$V_{CE}=-10\text{V}, I_C=-150\text{mA}$	100		300	
		$V_{CE}=-10\text{V}, I_C=-500\text{mA}$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-1.6	V
		$I_C=-150\text{mA}, I_B=-15\text{mA}$			-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-2.6	V
		$I_C=-150\text{mA}, I_B=-15\text{mA}$			-1.3	V
Delay time	t_d	$V_{CC}=-30\text{V}, I_C=-150\text{mA}, I_{B1}=-I_{B2}=-15\text{mA}$			12	ns
Rise time	t_r				30	ns
Storage time	t_s				300	ns
Fall time	t_f				65	ns
Transition frequency	f_T	$V_{CE}=-10\text{V}, I_C=-20\text{mA}, f=100\text{MHz}$	200			MHz

Typical Characteristics

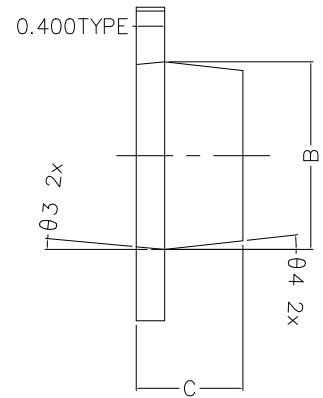
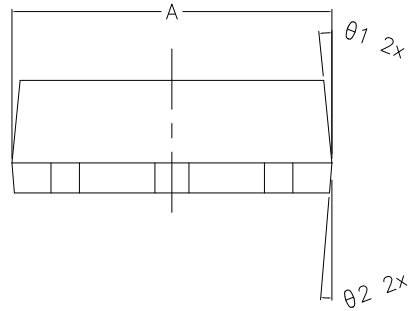




SOT-89 Package Outline Dimensions (Units: mm)

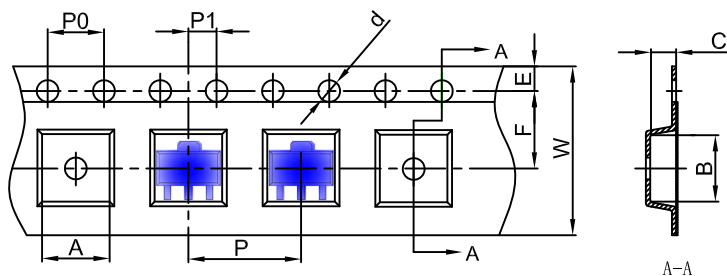


TOP VIEW



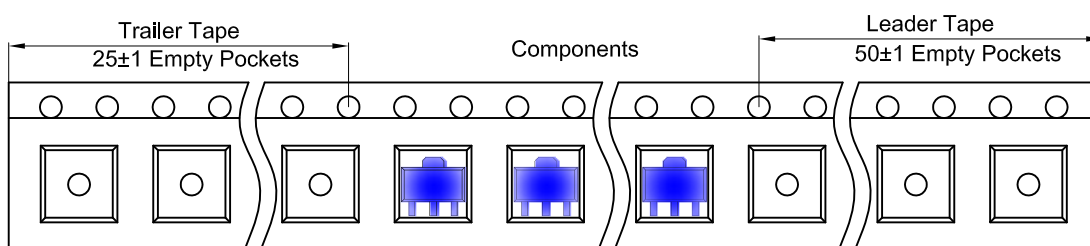
COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	4.450	4.550	4.650
B	2.450	2.550	2.650
C	1.400	1.500	1.600
D	4.100	4.200	4.300
L	0.850	0.950	1.050
b	0.350	0.400	0.450
b1	0.430	0.480	0.530
b2	1.500	1.550	1.600
e	1.500TYPE		
theta1	6° TYPE		
theta2	5° TYPE		
theta3	5° TYPE		
theta4	6° TYPE		

SOT-89 Embossed Carrier Tape

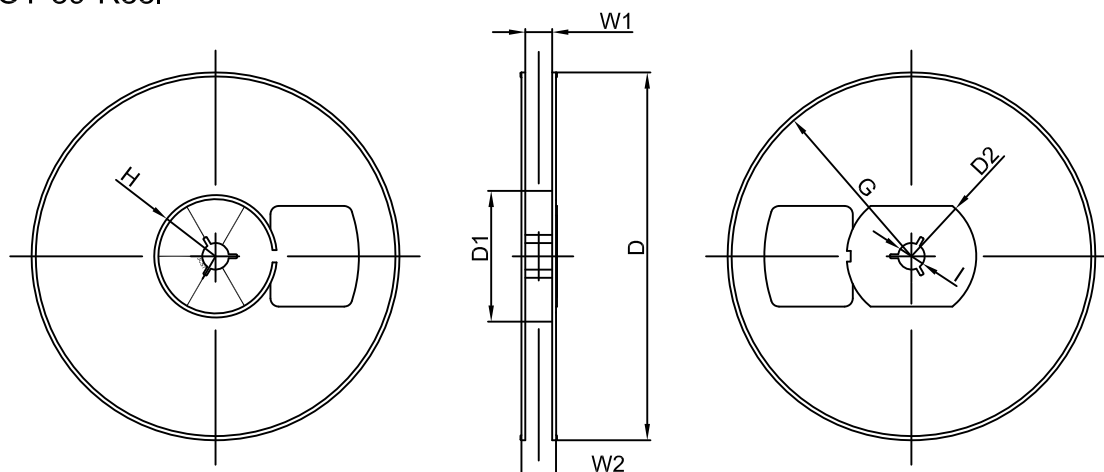


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-89-3L	4.8	4.7	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00
	+0.10 -0.10	+0.10 -0.10	+0.10 -0.10	+0.10 -0	+0.10 -0.10	+0.05 -0.05	+0.10 -0.10	+0.10 -0.10	+0.05 -0.05	+0.30 -0.10

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	12.70	15.90

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
1000 pcs	7 inch	10,000 pcs	212x212x215	40,000 pcs	437x435x230	