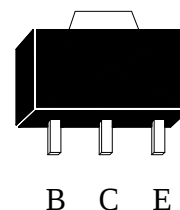


Low Vcesat PNP Epitaxial Planar Transistor

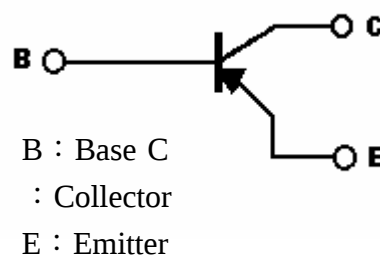
Features:

- Low $V_{CE(sat)}$, $V_{CE(sat)} = -0.65$ V (typical), at $I_C / I_B = -3A / -0.1A$
- Excellent current gain characteristics
- Complementary to BTD1766M3
- Pb-free lead plating package

SOT-89



BV_{CEO}	-30V
I_C	-2A
$R_{CESAT(typ)}$	0.22Ω



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-2	A
Collector Current (Pulse)	I_{CP}	-5 (Note 1)	A
Power Dissipation	P_d	0.5	W
Power Dissipation	P_d	2 (Note 2)	W
ESD susceptibility		4000 (Note 3)	V
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C

Note : 1. Single Pulse , $P_w = 10ms$

2. When mounting on a 40 × 40 × 0.7 mm ceramic board.

3. Human body model, 1.5k Ω in series with 100pF

Characteristics (Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CBO}	-40	-	-	V	I _C =-50μA, I _E =0
BV _{CEO}	-30	-	-	V	I _C =-1mA, I _B =0
BV _{EBO}	-5	-	-	V	I _E =-50μA, I _C =0
I _{CBO}	-	-	-1	μA	V _{CB} =-20V, I _E =0
I _{EBO}	-	-	-1	μA	V _{EB} =-4V, I _C =0
*V _{CE(sat)}	-	-	-1	V	I _C =-3A, I _B =-0.1A
*h _{FE}	180	-	560	-	V _{CE} =-3V, I _C =-0.5A
f _T	-	100	-	MHz	V _{CE} =-5V, I _C =-0.1A, f=100MHz
Cob	-	50	-	pF	V _{CB} =-10V, f =1MHz

*Pulse Test : Pulse Width ≤380μs, Duty Cycle≤2%

Classification Of hFE

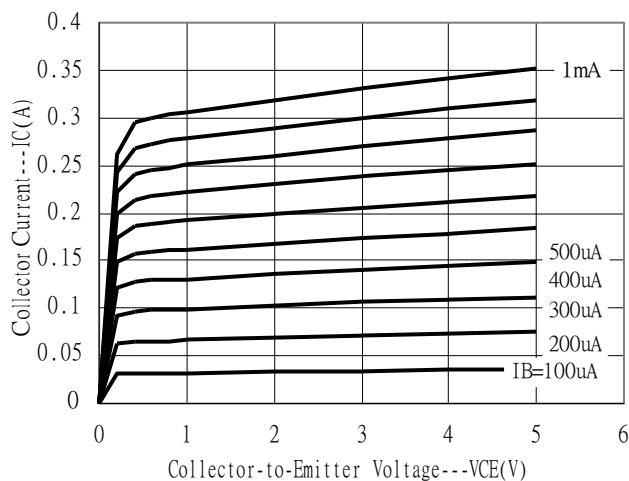
Rank	R	S
Range	180~390	270~560

Ordering Information

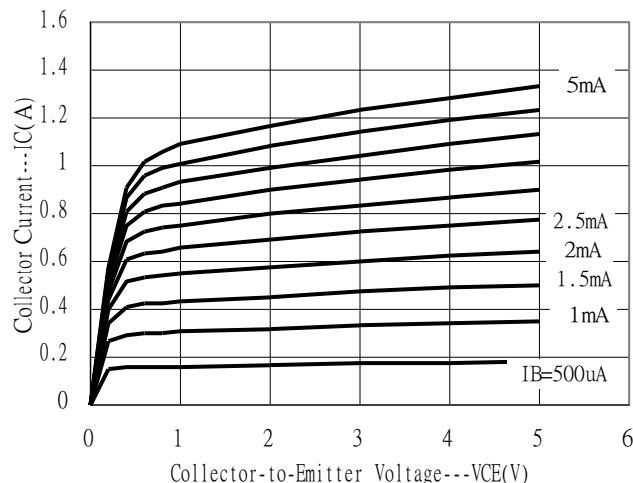
Device	Package	Shipping
KM1188	SOT-89 (Pb-free lead plating)	1000 pcs / Tape & Reel

Typical Characteristics

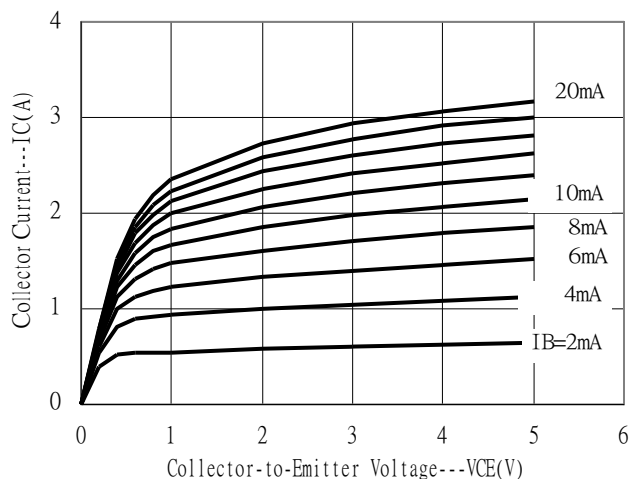
Emitter Grounded Output Characteristics



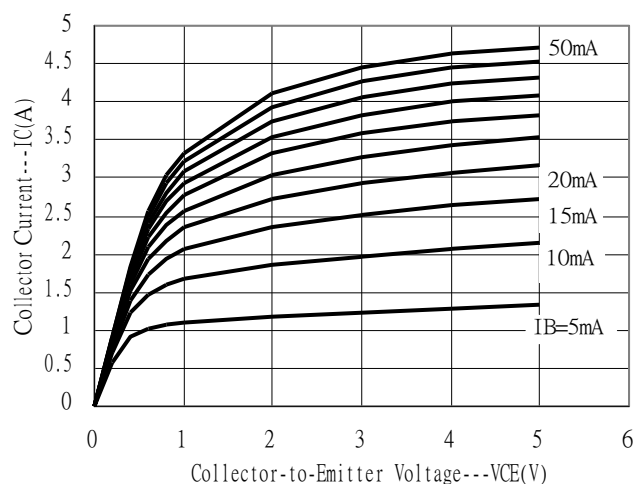
Emitter Grounded Output Characteristics



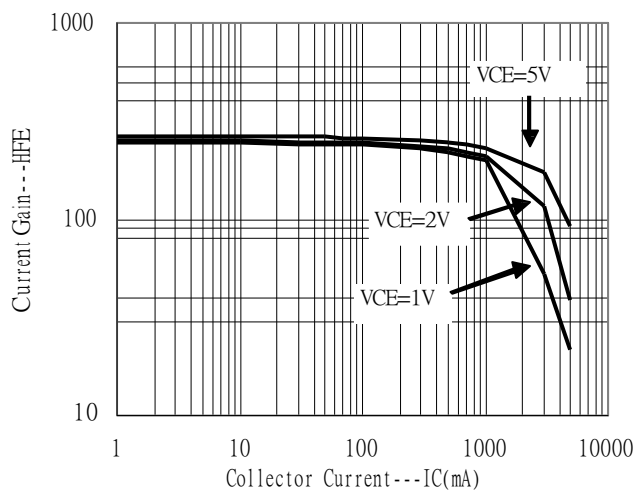
Emitter Grounded Output Characteristics



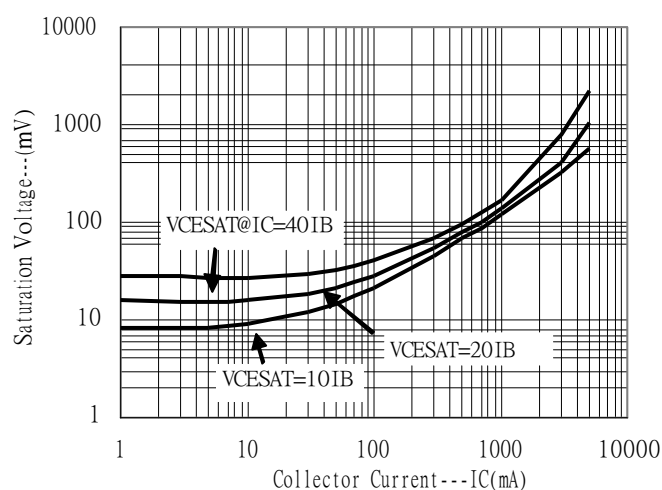
Emitter Grounded Output Characteristics



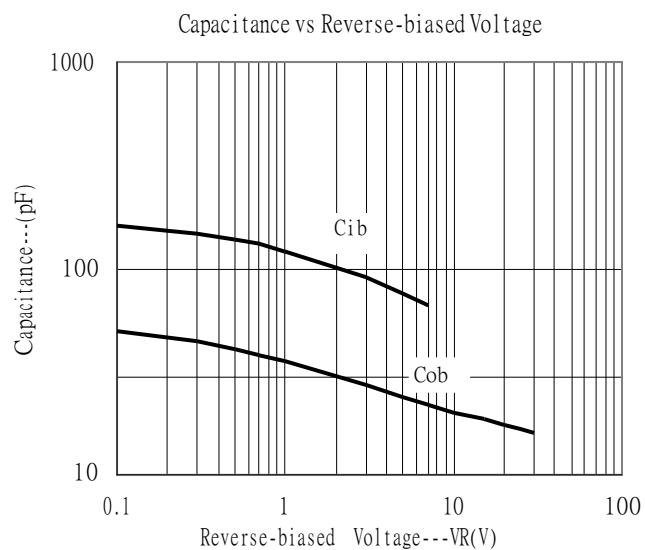
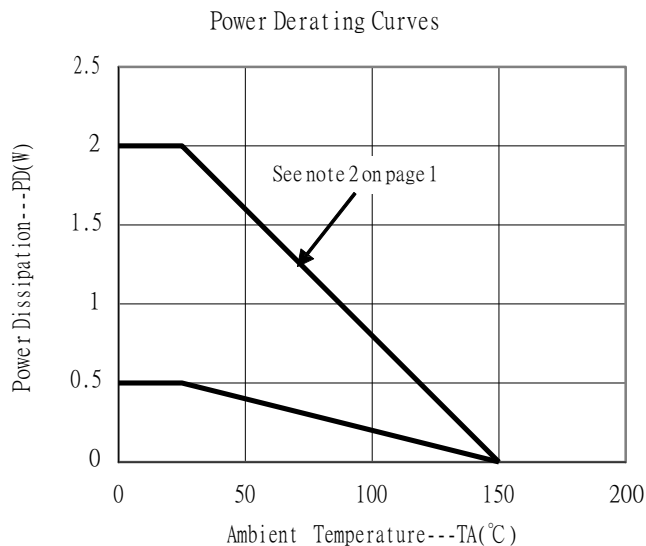
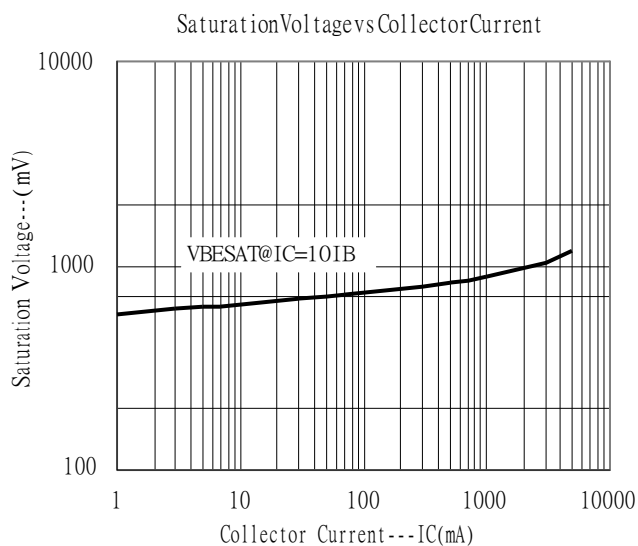
Current Gain vs Collector Current



Saturation Voltage vs Collector Current



Typical Characteristics(Cont.)

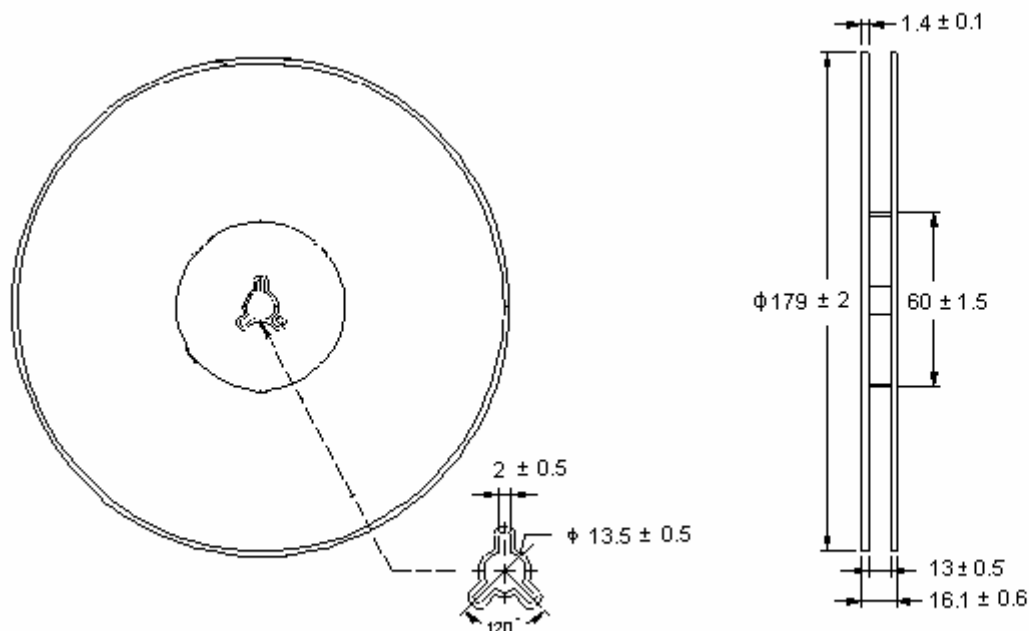


Recommended Storage Condition:

Temperature : 10~ 35 °C

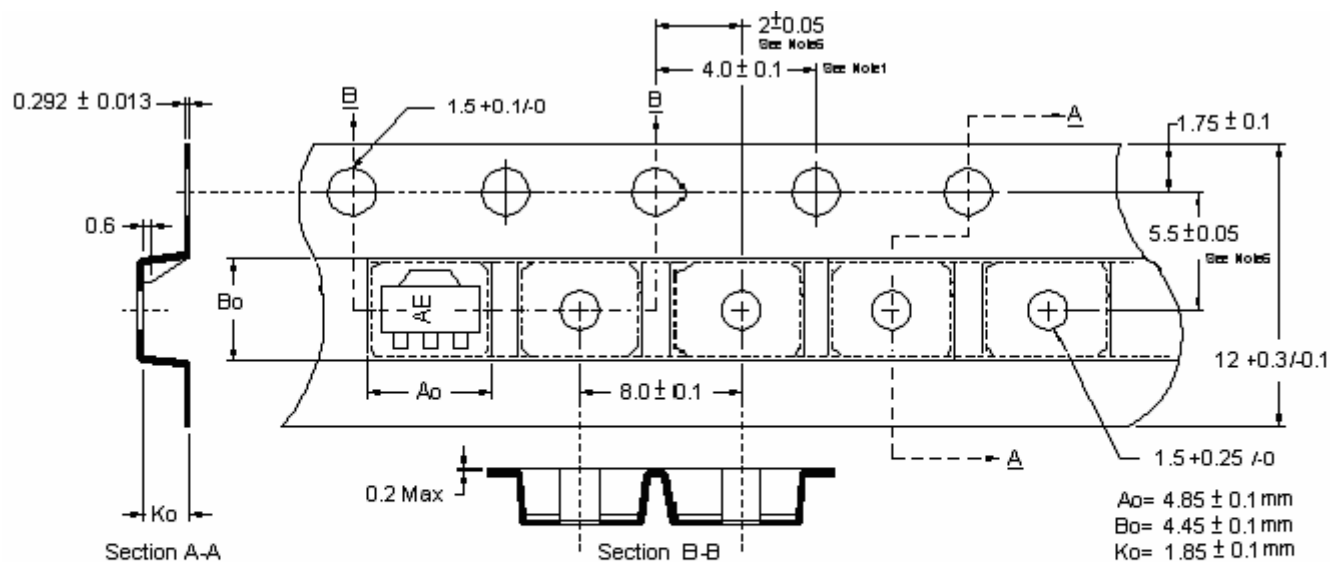
Humidity : 30~ 60% RH

Reel Dimension



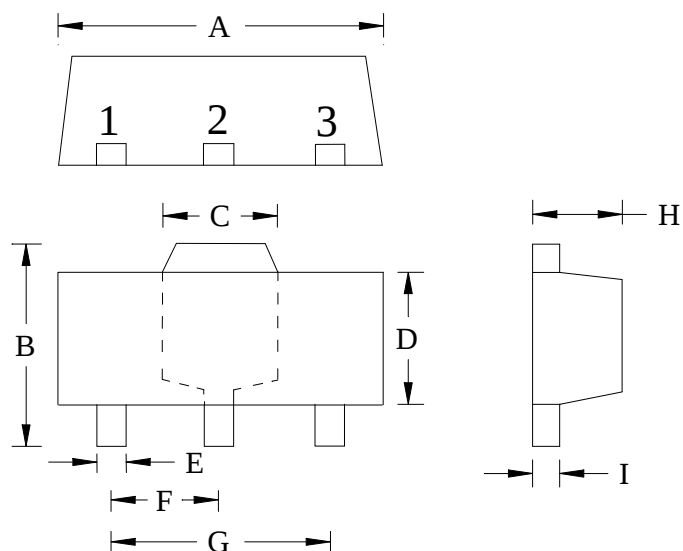
Unit: millimeter

Carrier Tape Dimension

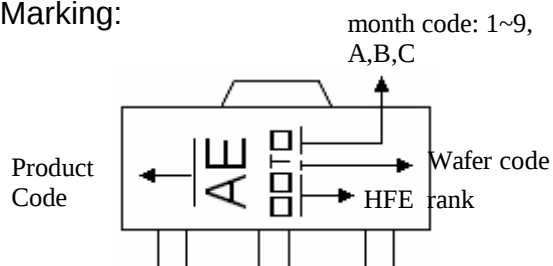


Unit : millimeter

SOT-89 Dimension



Marking:



Style: Pin 1. Base 2. Collector 3. Emitter

3-Lead SOT-89 Plastic
 Surface Mounted Package
 Package Code: M3

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.1732	0.1811	4.40	4.60	F	0.0591	TYP	1.50	TYP
B	0.1551	0.1673	3.94	4.25	G	0.1181	TYP	3.00	TYP
C	0.0610	REF	1.55	REF	H	0.0551	0.0630	1.40	1.60
D	0.0906	0.1024	2.30	2.60	I	0.0138	0.0173	0.35	0.44
E	0.0126	0.0205	0.32	0.52					