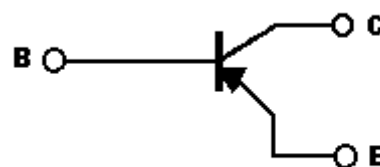
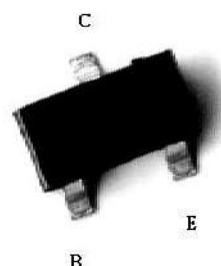


General Purpose PNP Epitaxial Planar Transistor

Description :

- The KWA1036-3 is designed for general purpose amplifier applications. It is housed in the SOT-323/SC-70 package which is designed for low power surface mount applications.
- Low $V_{CE(sat)}$
- High switching speed.
- Complementary to KWC2411-3
- Pb-free lead plating and halogen-free package

SOT-323



B : Base
 C : Collector
 E : Emitter

Ordering Information

Device	Package	Shipping
KWA1036-3	SOT-323 (Pb-free lead plating and halogen-free package)	3000 pcs / Tape & Reel

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-Base Voltage	V _{CB0}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-600	mA
Power Dissipation	P _D	150 (Note 1)	mW
Operating Junction Temperature Range	T _j	-55~+150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C

Note 1: When mounted on a FR-5 board with area measuring 1.0×0.75×0.062 in.

Thermal Data

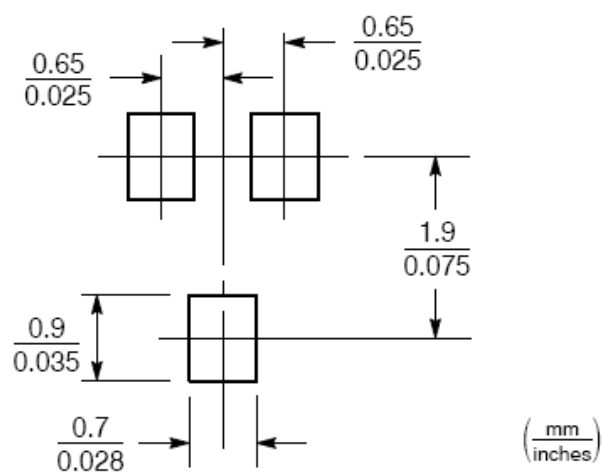
Parameter	Symbol	Value	Unit
Thermal Resistance, Junction-to-ambient, max	R _{th,j-a}	833	°C/W

Characteristics (Ta=25°C)

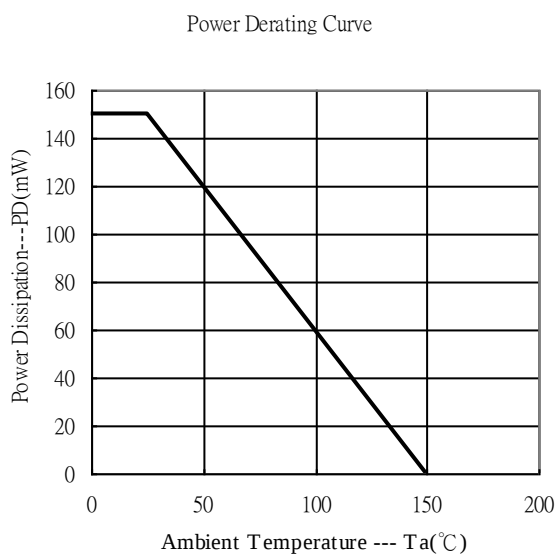
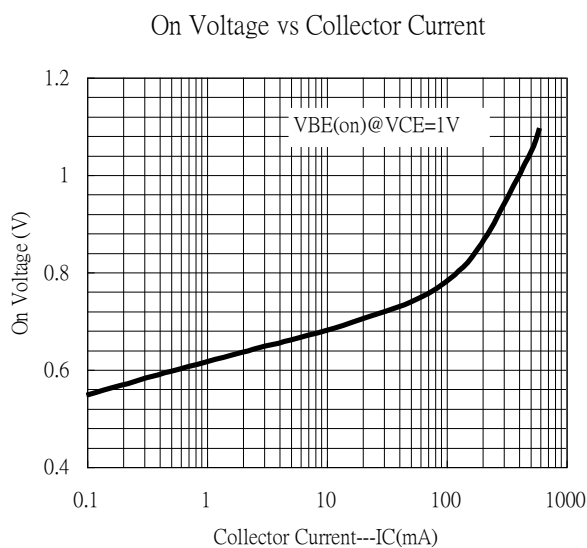
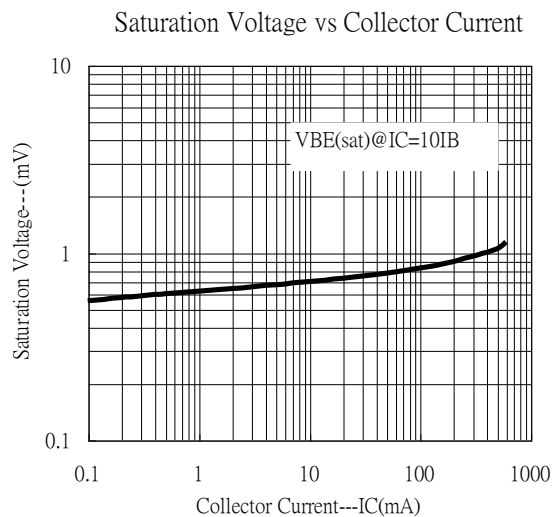
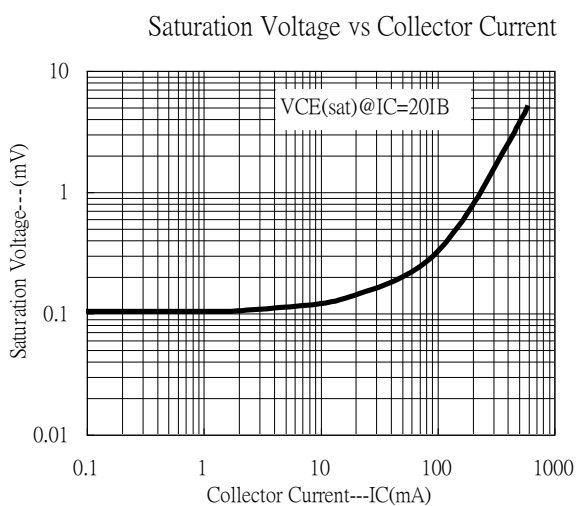
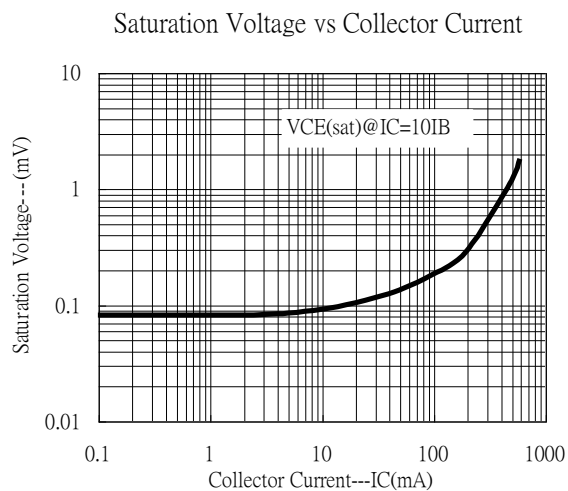
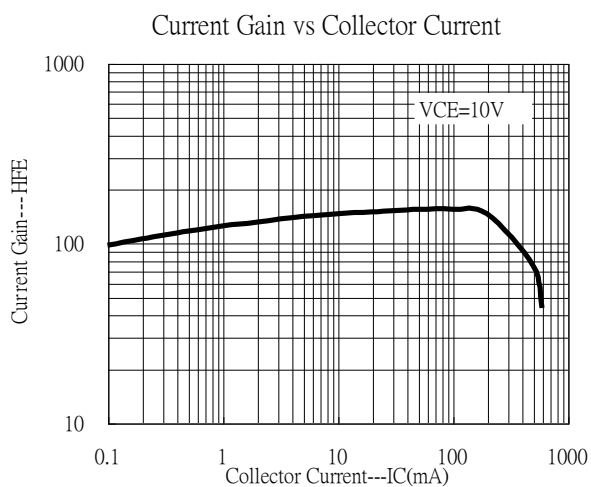
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	-60	-	-	V	I _C =-10μA
*BV _{CEO}	-60	-	-	V	I _C =-10mA
BV _{EB0}	-5	-	-	V	I _E =-10μA
I _{CB0}	-	-	-10	nA	V _{CB} =-50V
I _{CEX}	-	-	-50	nA	V _{CE} =-30V, V _{BE(OFF)} =-0.5V
*V _{CE(sat)}	-	-0.2	-0.4	V	I _C =-150mA, I _B =-15mA
*V _{CE(sat)}	-	-0.5	-1.6	V	I _C =-500mA, I _B =-50mA
*V _{BE(sat)}	-	-	-1.3	V	I _C =-150mA, I _B =-15mA
*V _{BE(sat)}	-	-	-2.6	V	I _C =-500mA, I _B =-50mA
*h _{FE}	75	-	-	-	V _{CE} =-10V, I _C =-100μA
*h _{FE}	100	-	-	-	V _{CE} =-10V, I _C =-1mA
*h _{FE}	100	-	-	-	V _{CE} =-10V, I _C =-10mA
*h _{FE}	100	-	300	-	V _{CE} =-10V, I _C =-150mA
*h _{FE}	50	-	-	-	V _{CE} =-10V, I _C =-500mA
f _T	200	-	-	MHz	V _{CE} =-20V, I _C =-50mA, f=100MHz
C _{ob}	-	-	8	pF	V _{CB} =-10V, I _E =0A, f=1MHz

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

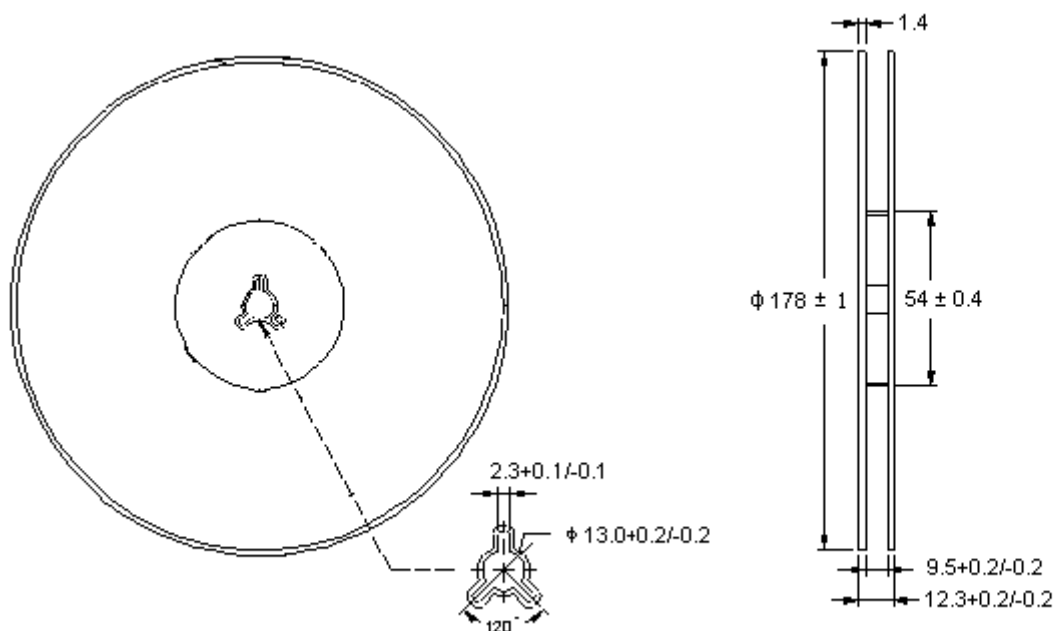
Recommended Soldering Footprint



Typical Characteristics

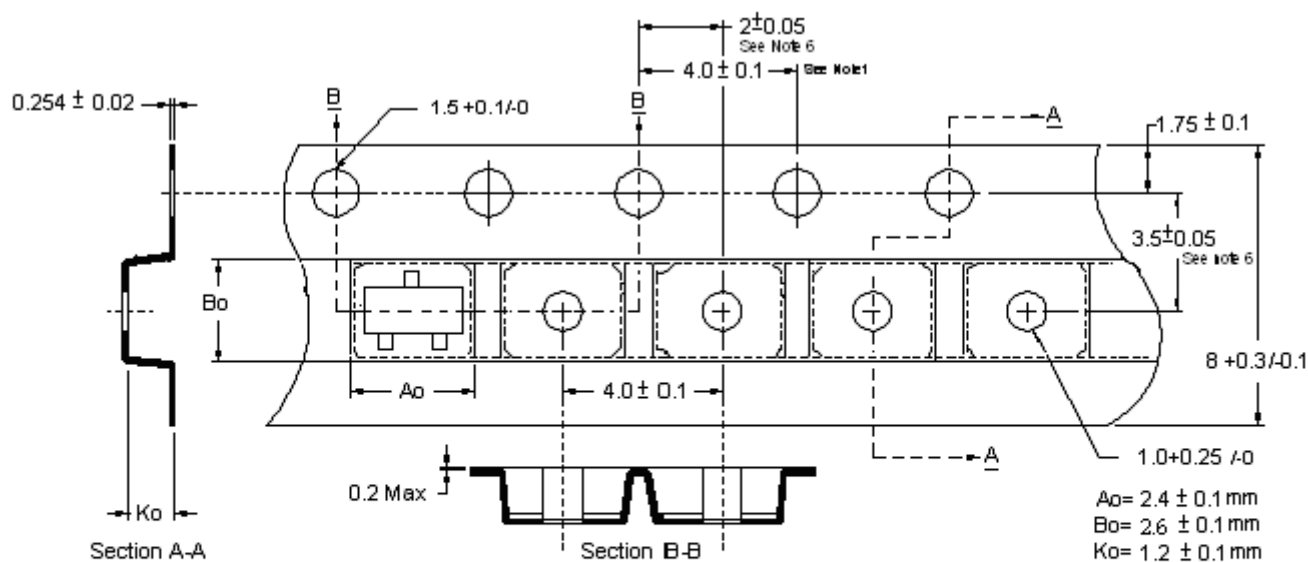


Reel Dimension



Unit: millimeter

Carrier Tape Dimension



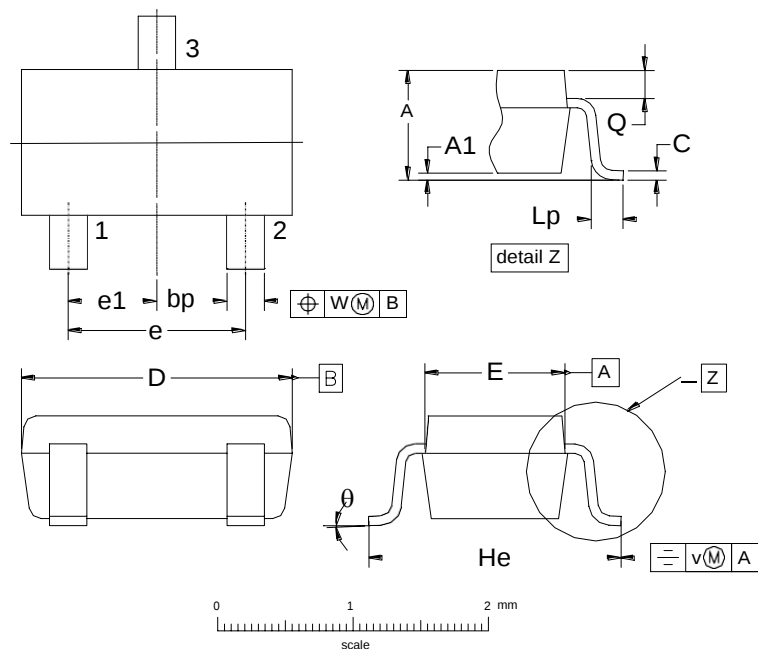
Section A-A

Notes:

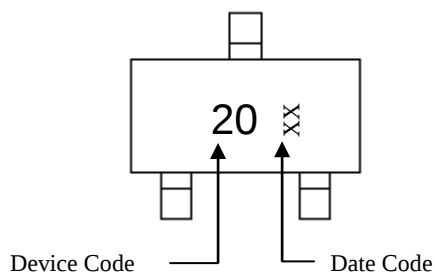
1. 10 sprocket hole pitch cumulative tolerance ± 0.2 .
2. Camber not to exceed 1mm in 100mm.
3. Material : Conductive black polystyrene.
4. Ao & Bo measured on a plane 0.3mm above the bottom of the pocket.
5. Ko measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
6. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

Unit : millimeter

SOT-323 Dimension



Marking:



3-Lead SOT-323 Plastic
Surface Mounted Package

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

*: Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.0315	0.0433	0.80	1.10	e1	0.0256*		0.65*	
A1	0.0000	0.0039	0.00	0.10	He	0.0846	0.0965	2.15	2.45
bp	0.0078	0.0157	0.20	0.40	Lp	0.0105	0.0181	0.26	0.46
C	0.0031	0.0059	0.08	0.15	Q	0.0051	0.0091	0.13	0.23
D	0.0709	0.0866	1.80	2.20	v	0.0079	-	0.2	-
E	0.0453	0.0531	1.15	1.35	w	0.0079	-	0.2	-
e	0.0472	0.0551	1.20	1.40	θ	0°	8°	0°	8°