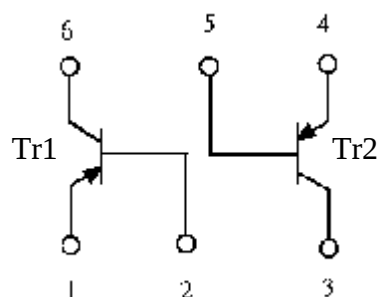
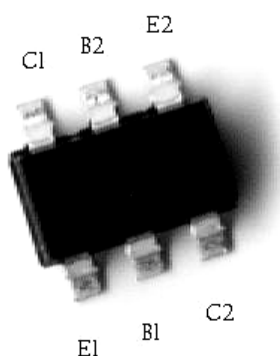


General Purpose PNP Epitaxial Planar Transistors (dual transistors)

Features :

- Two KWA1037 chips in a SOT-363R package.
- Mounting possible with SOT-323 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Mounting cost and area can be cut in half.
- Excellent hFE linearity
- Pb-free lead plating and halogen-free package.

SOT-363R



Ordering Information

Device	Package	Shipping
KWHBP1037	SOT-363 (Pb-free lead plating and halogen-free package)	3000 pcs / tape & reel

The following characteristics apply to both Tr1 and Tr2

Absolute Maximum Ratings (Ta=25°C, each transistor)

Parameter	Symbol	Limits	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-65	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current	I _C	-150	mA
Power Dissipation	P _d	200(total) *1	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	625	°C/W
Operating Junction Temperature Range	T _j	-55~+150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C

Note : *1 150mW per element must not be exceeded

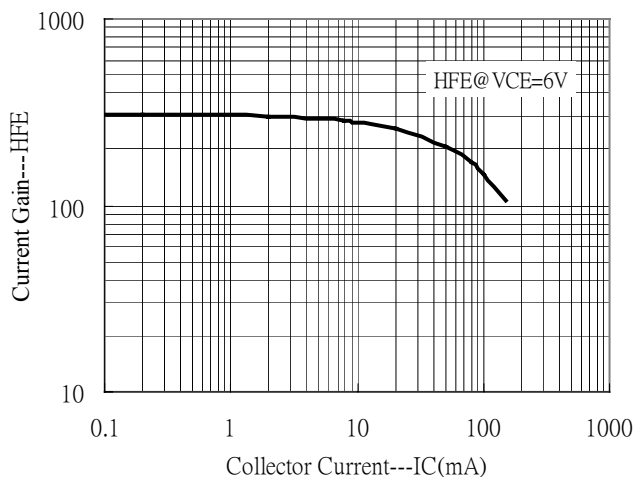
Characteristics (Ta=25°C, each transistor)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CBO}	-100	-	-	V	I _C =-50μA
BV _{CEO}	-65	-	-	V	I _C =-1mA
BV _{EBO}	-6	-	-	V	I _E =-50μA
I _{CBO}	-	-	-0.1	μA	V _{CB} =-80V
I _{EBO}	-	-	-0.1	μA	V _{EB} =-6V
*V _{CE(sat)}	-	-	-0.2	V	I _C =-10mA, I _B =-0.5mA
*V _{CE(sat)}	-	-0.12	-0.3	V	I _C =-50mA, I _B =-5mA
*V _{CE(sat)}	-	-	-0.4	V	I _C =-100mA, I _B =-5mA
V _{BE}	-0.6	-	-0.7	V	V _{CE} =-6V, I _C =-2mA
V _{BE}	-	-	-0.76	V	V _{CE} =-6V, I _C =-10mA
*h _{FE}	200	-	450		V _{CE} =-6V, I _C =-1mA
f _T	80	110	-	MHz	V _{CE} =-10V, I _C =-1mA, f=100MHz
C _{ob}	-	2	3.5	pF	V _{CB} =-10V, f=1MHz

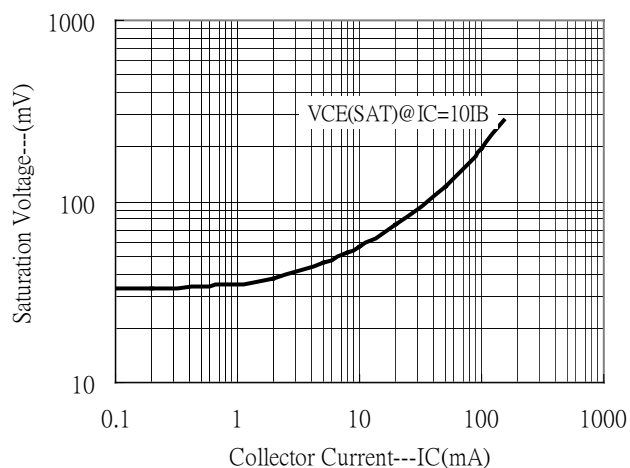
*Pulse Test: Pulse Width ≤380μs, Duty Cycle≤2%

Typical Characteristics

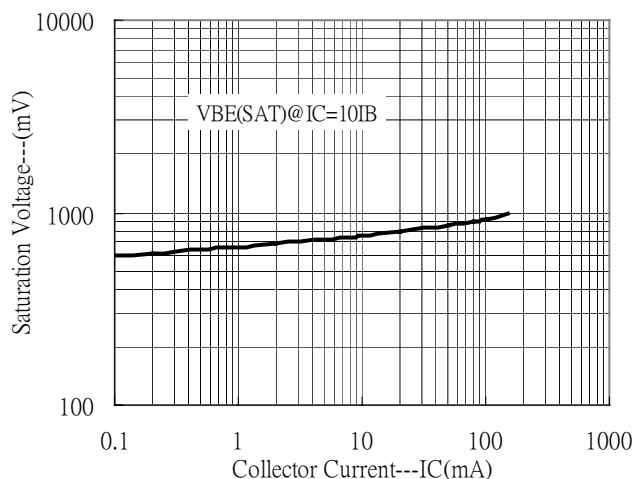
Current Gain vs Collector Current



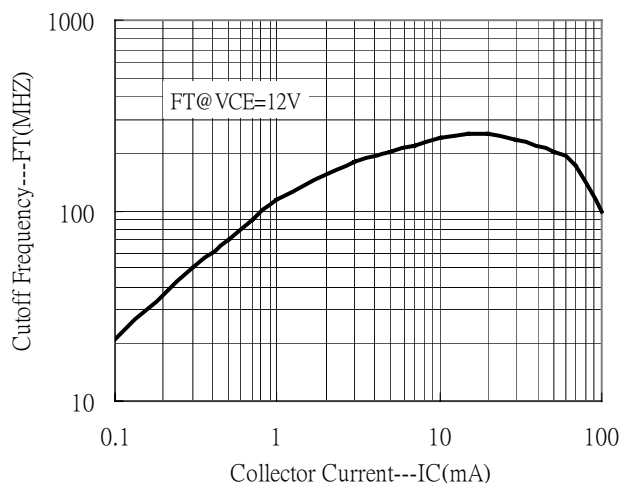
Saturation Voltage vs Collector Current



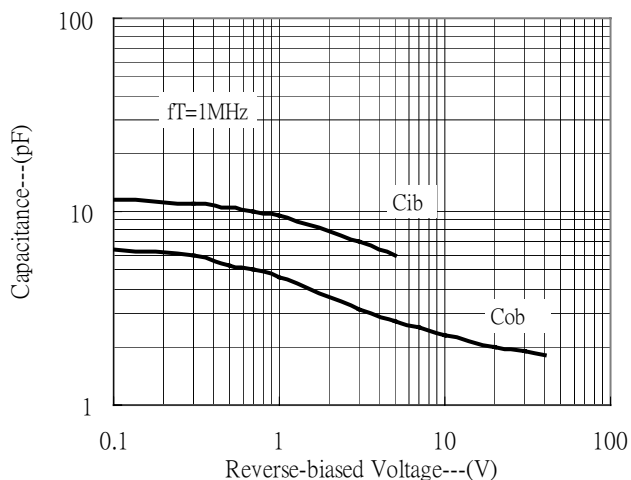
Saturation Voltage vs Collector Current



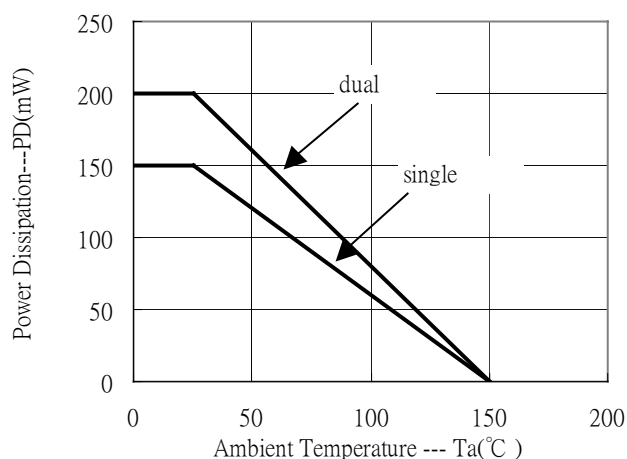
Cutoff Frequency vs Collector Current



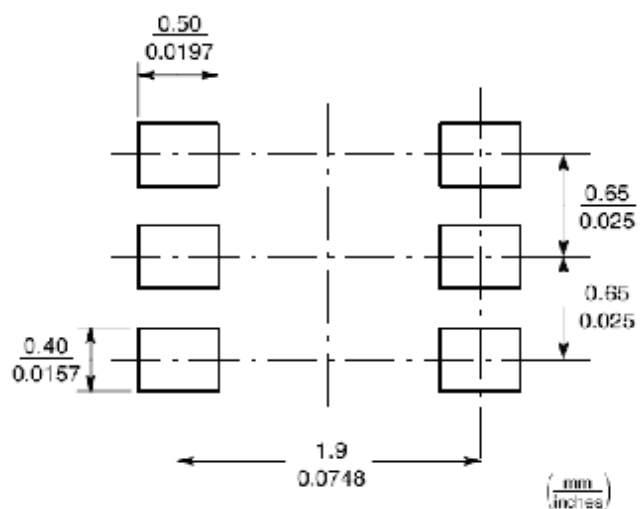
Capacitance Characteristics



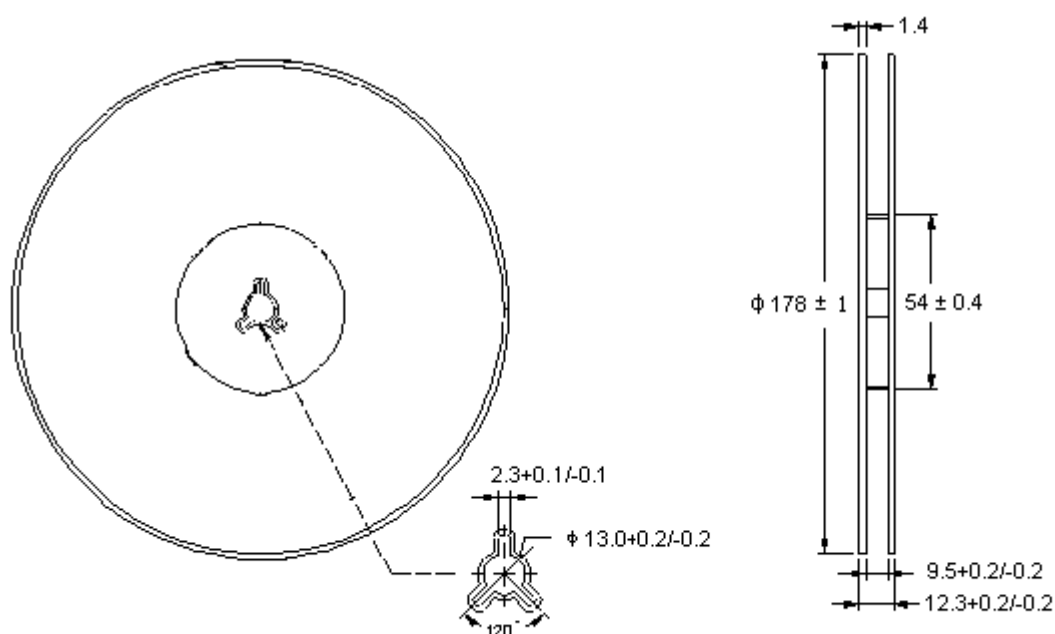
Power Derating Curves



Recommended Soldering Footprint

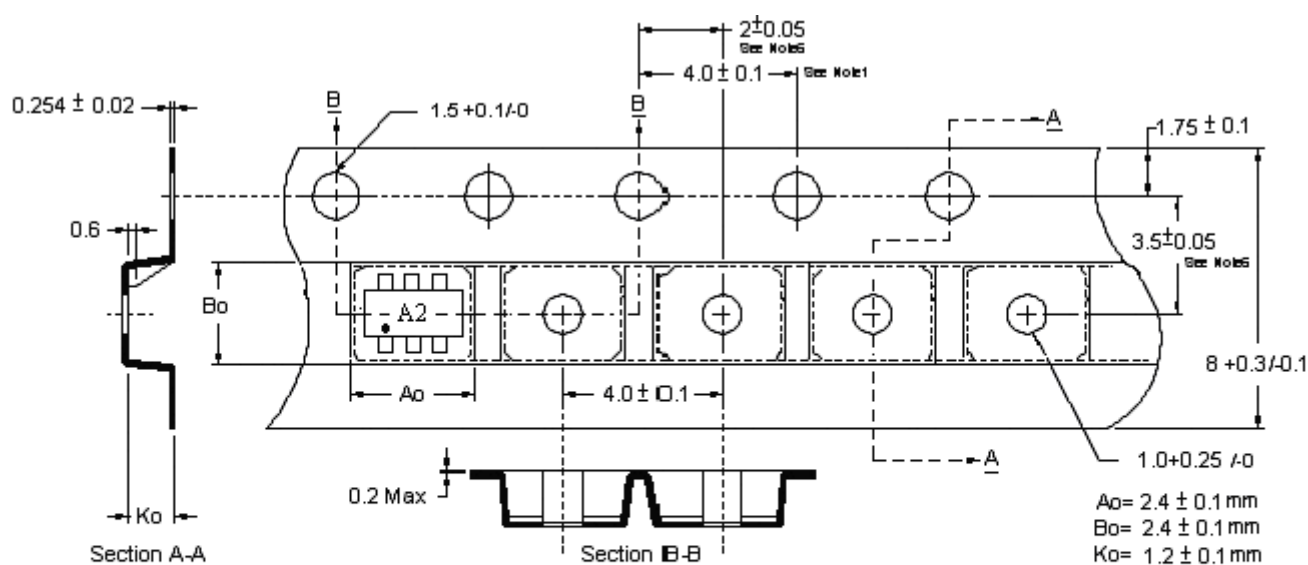


Reel Dimension



Unit: millimeter

Carrier Tape Dimension

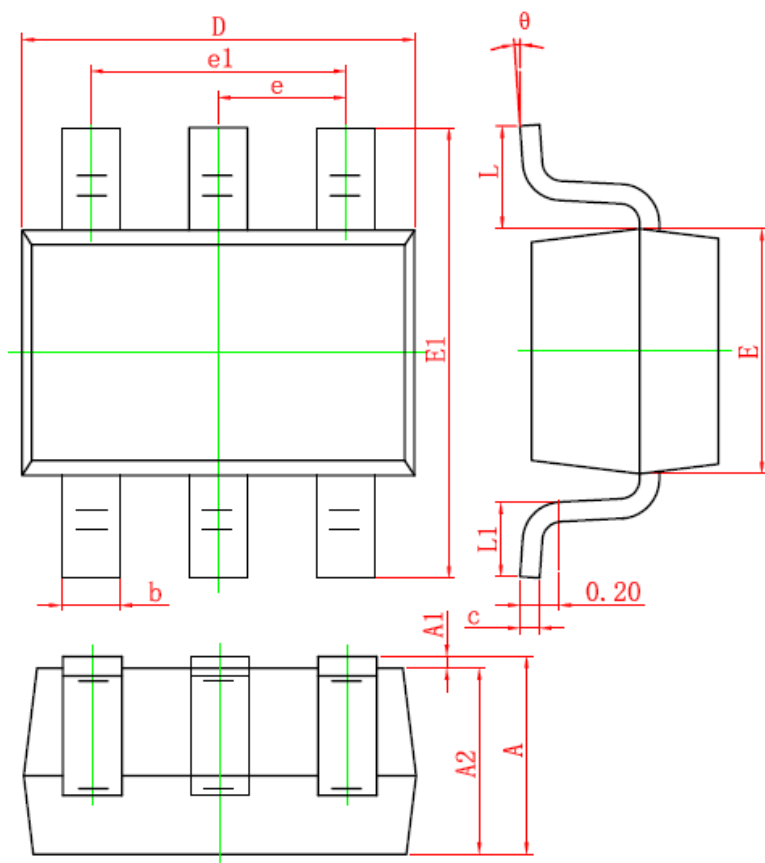


Notes

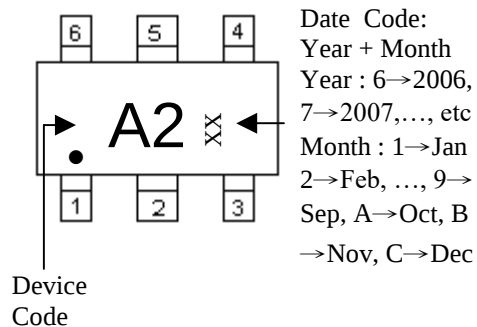
1. 10 sprocket hole pitch cumulative tolerance ± 0.2 .
2. Camber not to exceed 1mm in 100mm.
3. Material: Conductive Black Polystyrene.
4. A_0 & B_0 measured on a plane 0.3mm above the bottom of the pocket.
5. K_0 measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
6. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

Unit : millimeter

SOT-363 Dimension



Marking:



6-Lead SOT-363 Plastic
Surface Mounted Package

Style:

- Pin 1. Emitter1 (E1)
- Pin 2. Base1 (B1)
- Pin 3. Collector2 (C2)
- Pin 4. Emitter2 (E2)
- Pin 5. Base2 (B2)
- Pin 6. Collector1 (C1)

DIM	Millimeters		Inches		DIM	Millimeters		Inches	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043	E1	2.150	2.450	0.085	0.096
A1	0.000	0.100	0.000	0.004	e	0.650	TYP	0.026	TYP
A2	0.900	1.000	0.035	0.039	e1	1.200	1.400	0.047	0.055
b	0.150	0.350	0.006	0.014	L	0.525	REF	0.021	REF
c	0.080	0.150	0.003	0.006	L1	0.260	0.460	0.010	0.018
D	2.000	2.200	0.079	0.087	theta	0°	8°	0°	8°
E	1.150	1.350	0.045	0.053					