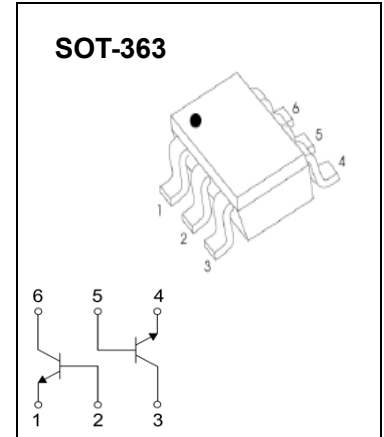


Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- Compliant to Halogen-free

Mechanical Data

- **Package:** SOT-363
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** K4N



Maximum Ratings (T_A=25 °C Unless otherwise specified)

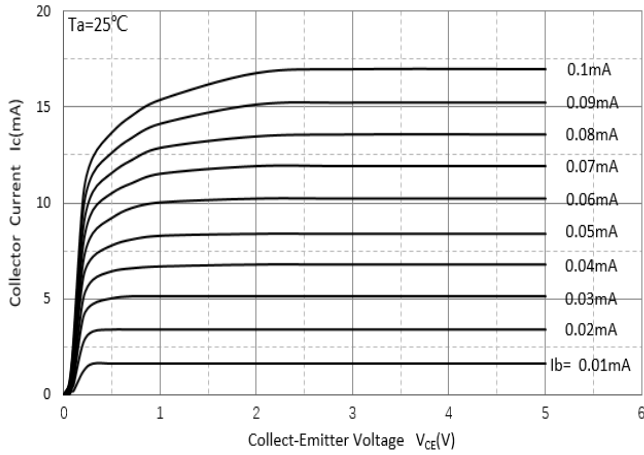
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	180	V
Collector-Emitter Breakdown Voltage	V _{CEO}	160	V
Emitter-Base Breakdown Voltage	V _{EBO}	6	V
Collector Current (Continuous)	I _C	0.6	A
Power Dissipation	P _D	0.2	W
Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Electrical Characteristics (T_A =25°C unless otherwise specified)

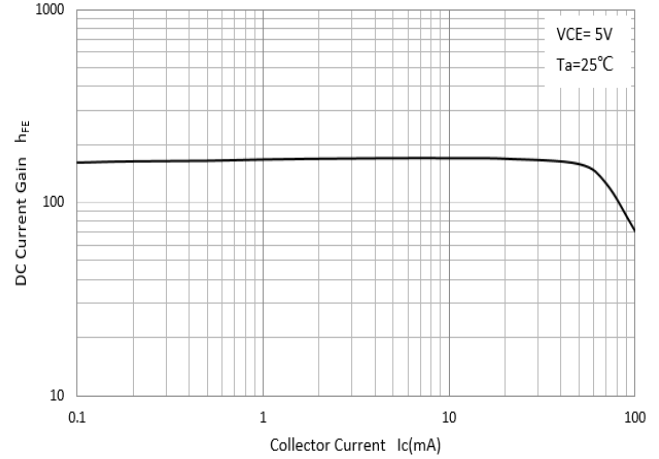
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = 100μA, I _E = 0	180	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 1mA, I _B = 0	160	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = 10μA, I _C = 0	6	-	-	V
Collector Cut-off Current	I _{CBO}	V _{CB} = 120V, I _E = 0	-	-	50	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 4V, I _C = 0	-	-	50	nA
DC Current Gain	h _{FE}	V _{CE} = 5V, I _C = 1mA	80	-	-	-
		V _{CE} = 5V, I _C = 10mA	100	-	300	-
		V _{CE} = 5V, I _C = 50mA	30	-	-	-
Collector-emitter Saturation Voltage	V _{CE(sat)}	I _C = 10mA, I _B = 1mA	-	-	0.15	V
		I _C = 50mA, I _B = 5mA	-	-	0.2	V
Base-emitter Saturation Voltage	V _{BE(sat)}	I _C = 10mA, I _B = 1mA	-	-	1	V
		I _C = 50mA, I _B = 5mA	-	-	1	V
Collector-base Output Capacitance	C _{cbo}	V _{CB} = 10V, f = 1MHz, I _E = 0	-	-	6	pF
Current-Gain— Bandwidth Product	f _T	I _C = 10mA, V _{CE} = 10V f = 100MHz	100	-	300	MHz

Characteristics (Typical)

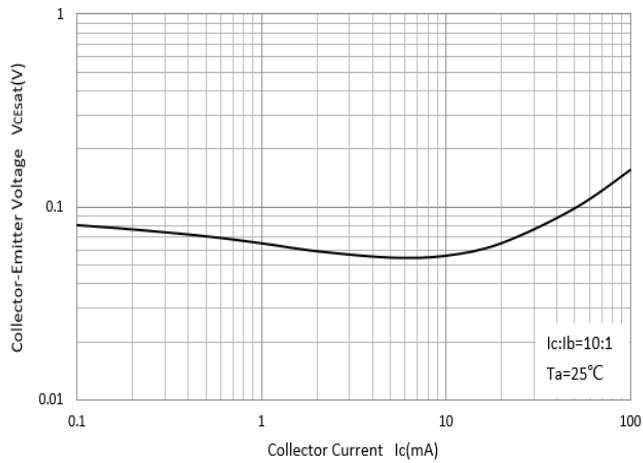
Static Characteristic



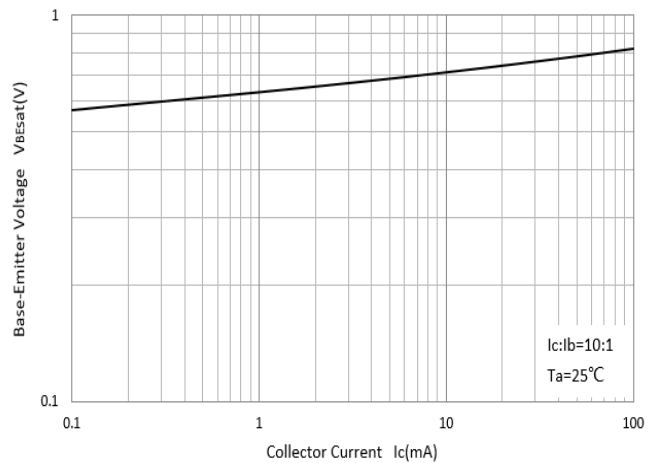
DC Current Gain



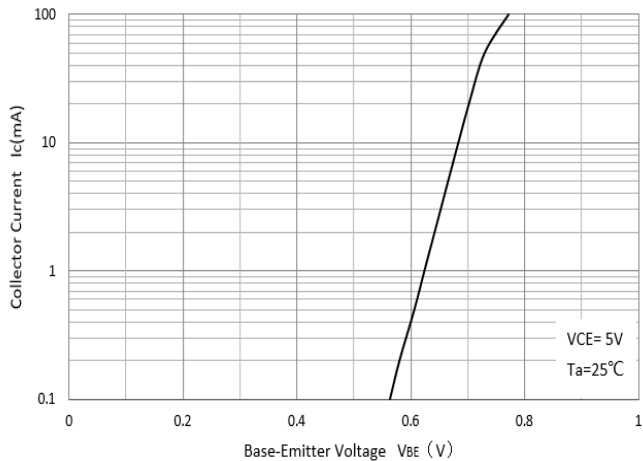
Collector-Emitter Saturation Voltage



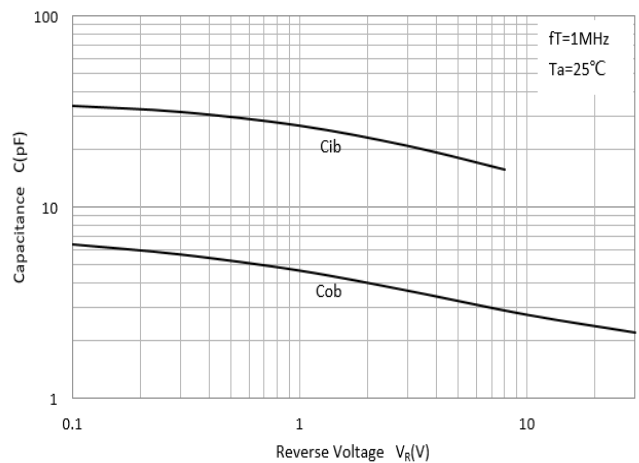
Base-Emitter Saturation Voltage



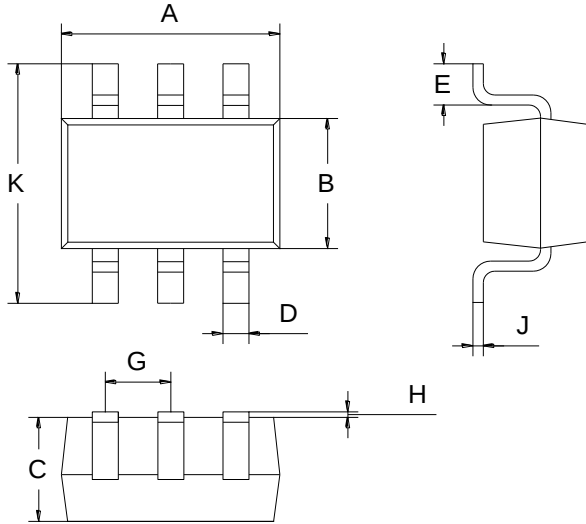
Base-Emitter On Voltage



$C_{ob}/C_{ib} - V_{cb}/V_{eb}$

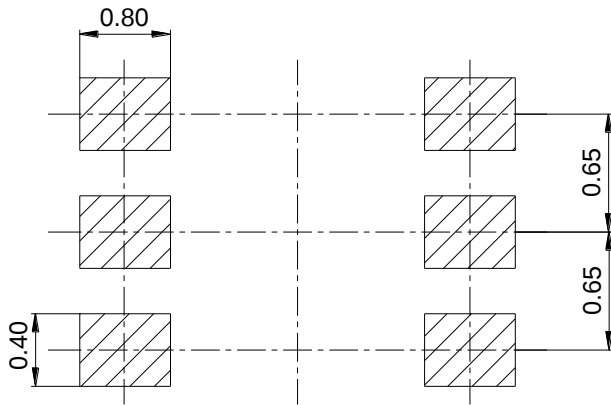


SOT-363 Package Outline Dimensions (Unit : mm)



SOT-363		
Dimension	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	0.85	1.10
D	0.15	0.35
E	0.25	0.46
G	0.60	0.70
H	0.00	0.10
J	0.05	0.25
K	2.15	2.45

SOT-363 Soldering Footprint



Unit: mm