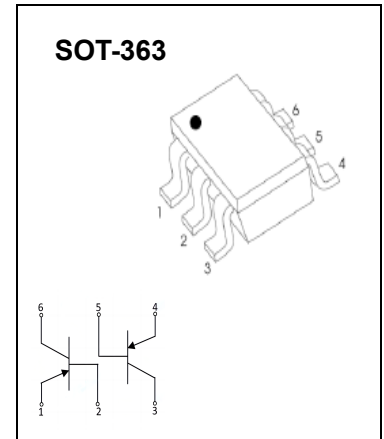


Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- Compliant to Halogen-free
- Suffix “-Q1” for AEC-Q101

Mechanical Data

- **Package:** SOT-363
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** K4M



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

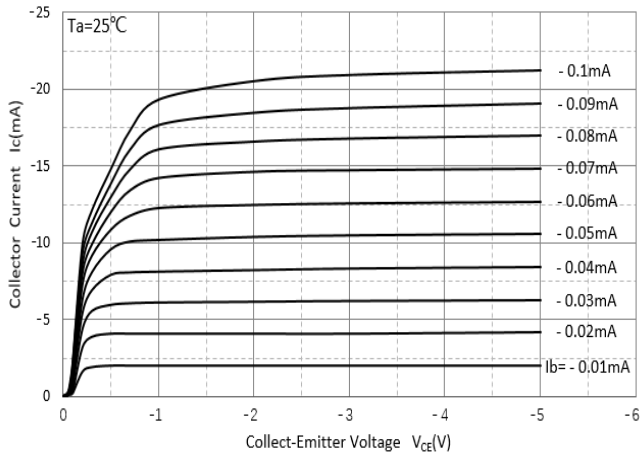
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-160	V
Collector-Emitter Breakdown Voltage	V _{CEO}	-150	V
Emitter-Base Breakdown Voltage	V _{EBO}	-5	V
Collector Current (Continuous)	I _C	-0.6	A
Power Dissipation	P _D	0.2	W
Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

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

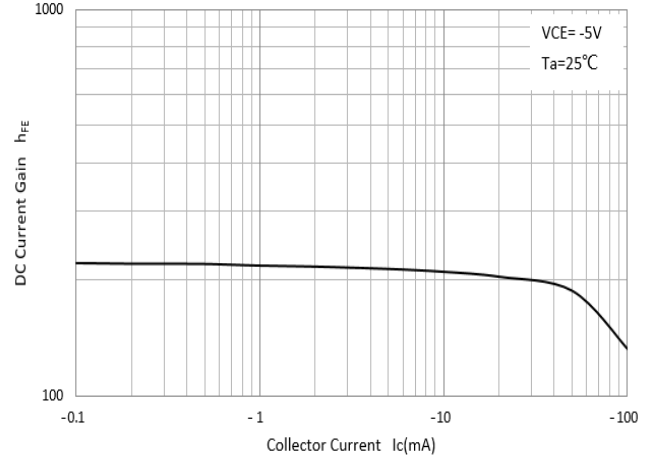
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = -100μA, I _E = 0	-160	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = -1mA, I _B = 0	-150	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-5	-	-	V
Collector Cut-off Current	I _{CBO}	V _{CB} = -120V, I _E = 0	-	-	-50	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} = -3V, I _C = 0	-	-	-50	nA
DC Current Gain	h _{FE}	V _{CE} = -5V, I _C = -1mA	50	-	-	-
		V _{CE} = -5V, I _C = -10mA	100	-	300	-
		V _{CE} = -5V, I _C = -50mA	50	-	-	-
Collector-emitter Saturation Voltage	V _{CE(sat)}	I _C = -10mA, I _B = -1mA	-	-	-0.2	V
		I _C = -50mA, I _B = -5mA	-	-	-0.5	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	-	-	MHz

Characteristics (Typical)

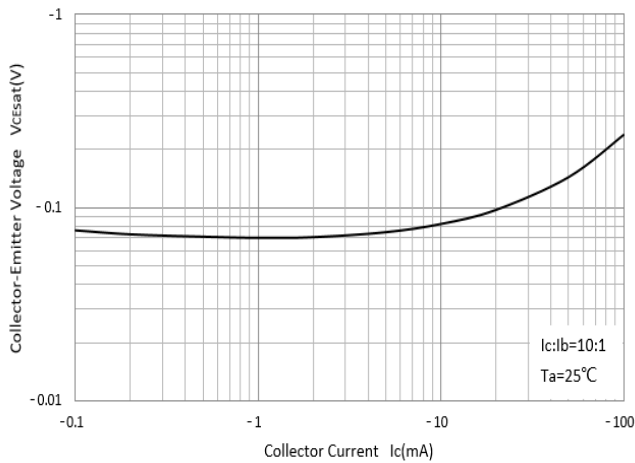
Static Characteristic



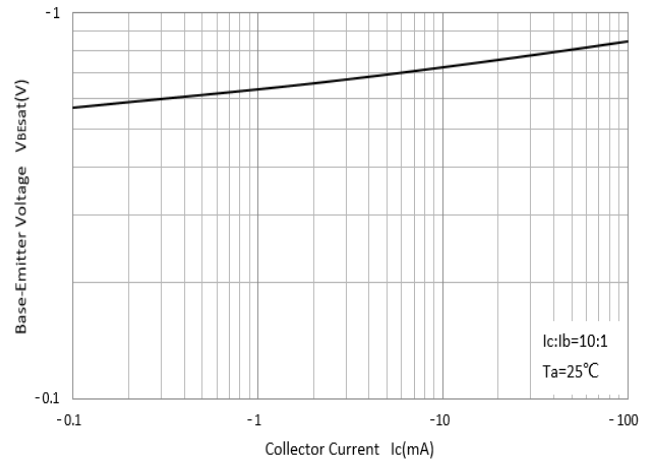
DC Current Gain



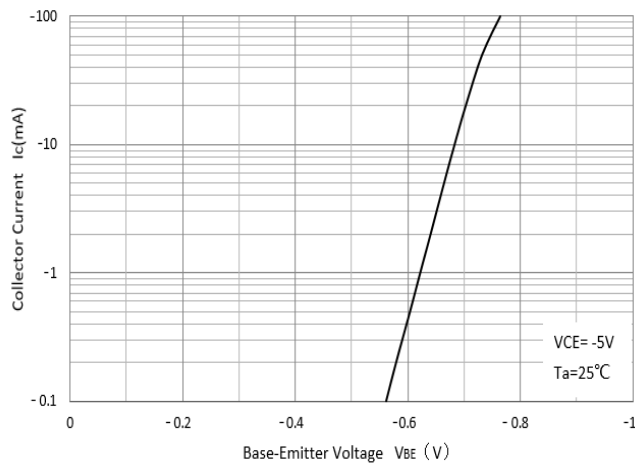
Collector-Emitter Saturation Voltage



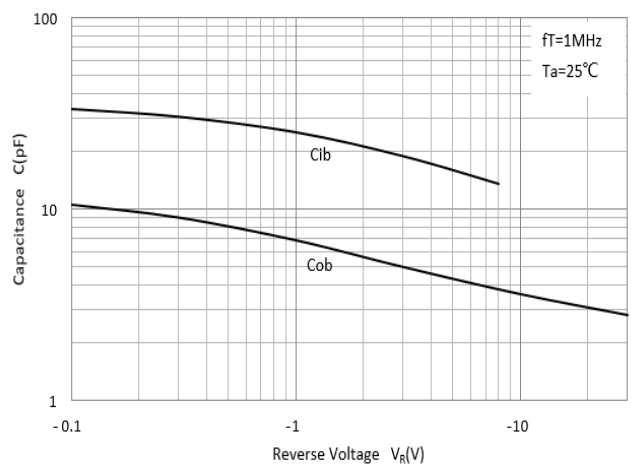
Base-Emitter Saturation Voltage



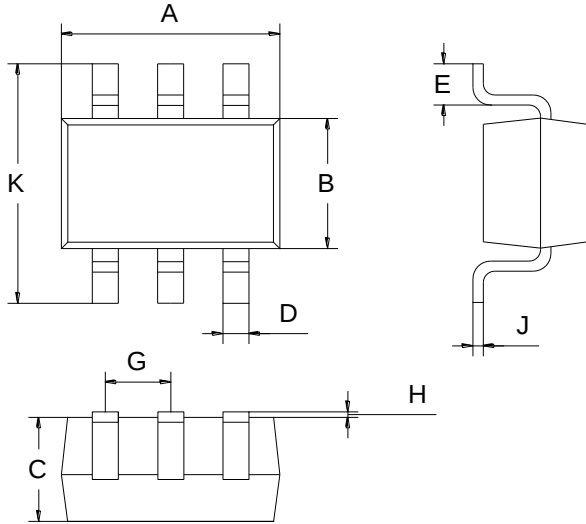
Base-Emitter On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$

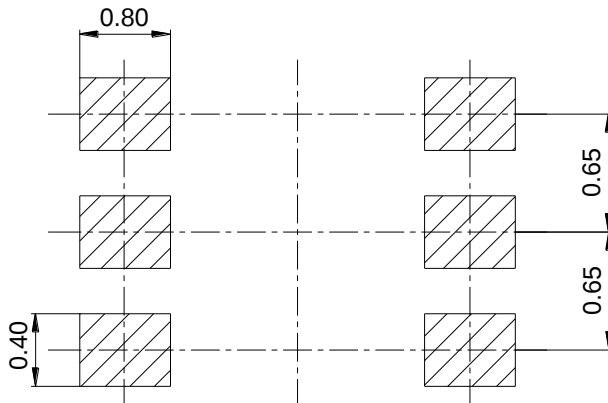


SOT-363 Package Outline Dimensions (Unit : mm)



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