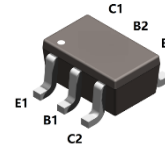
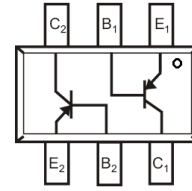


Features

- Low current
- Low voltage
- Compliant to Halogen-free
- Suffix “-Q1” for AEC-Q101

Mechanical Data

- Case: SOT-363
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208
- Marking Code : 3D or 5Ft



SOT-363

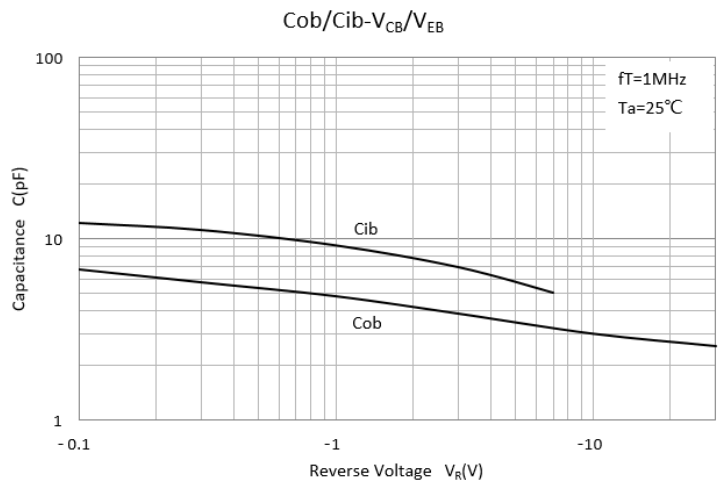
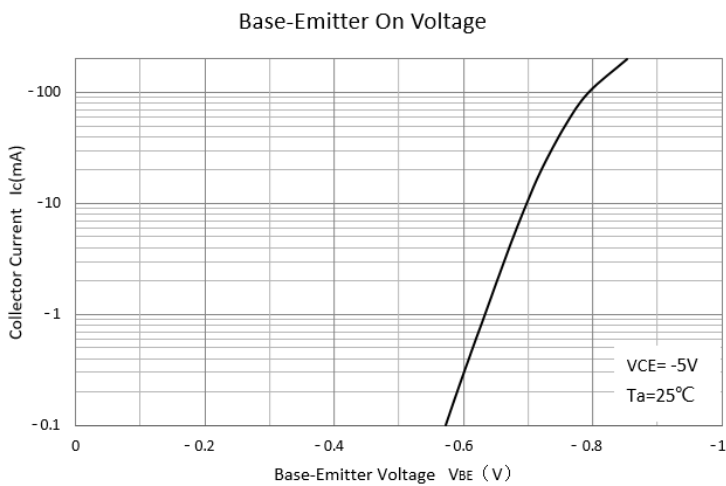
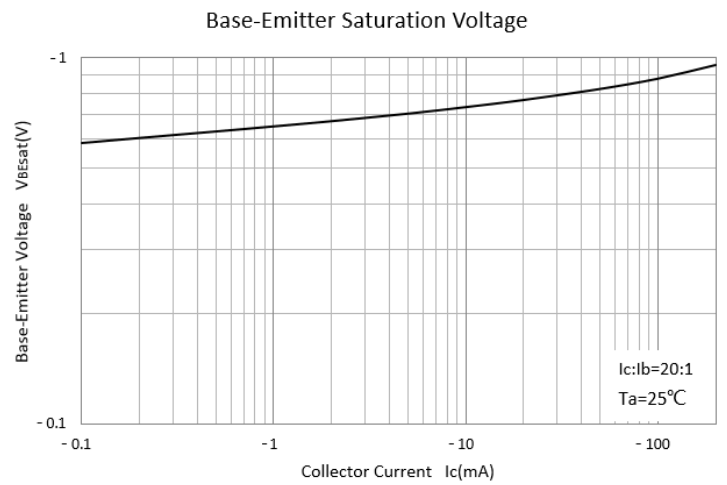
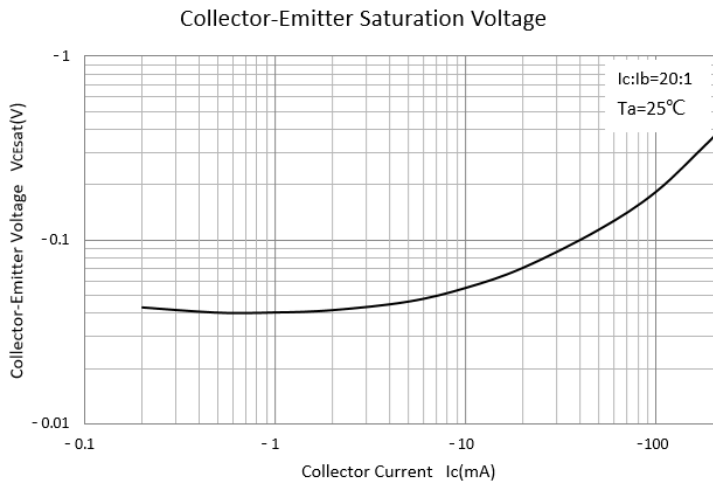
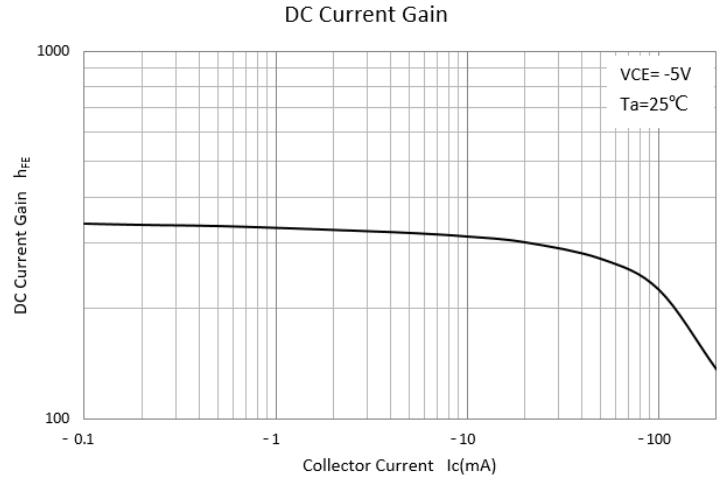
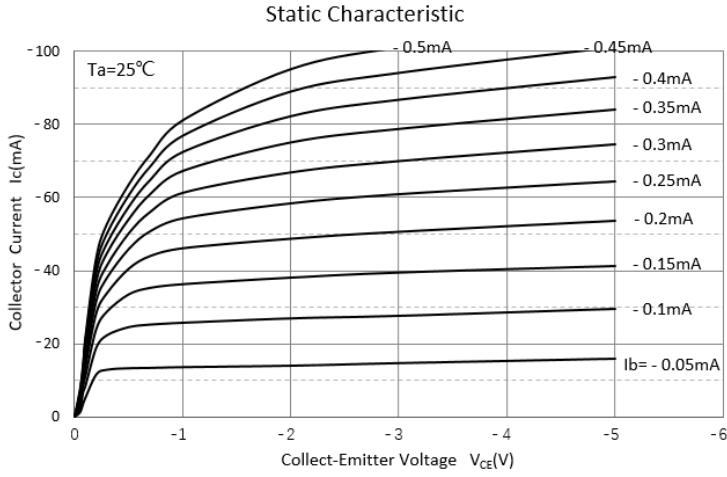
Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CB0}	-80	V
Collector-Emitter Voltage	V _{CEO}	-65	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current (Continuous)	I _C	-100	mA
Power Dissipation (T _A = 25°C)	P _D	200	mW
Operating Junction Temperature	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

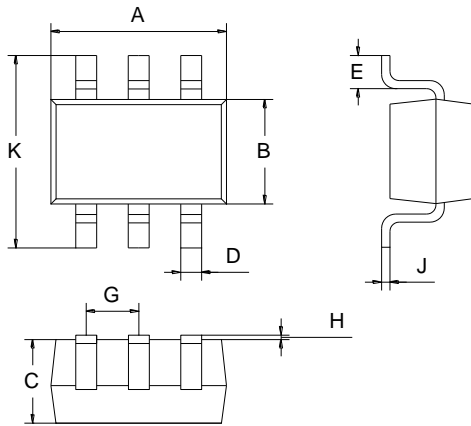
Electrical Characteristics (@ T_a = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-80	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = -10mA, I _B = 0	-65	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-5	-	-	V
Collector Cut-off Current	I _{CBO}	V _{CB} = -30V, I _E = 0	-	-	-15	nA
Emitter-base Cut-off Current	I _{EBO}	V _{EB} = -5V, I _C = 0	-	-	-100	nA
DC Current Gain	h _{FE}	V _{CE} = -5V, I _C = -2mA	220	-	475	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -10mA, I _B = -0.5mA	-	-	-0.3	V
		I _C = -100mA, I _B = -5mA	-	-	-0.65	V
Base-Emitter Voltage	V _{BE(ON)}	V _{CE} = -5V, I _C = -2mA	-0.6	-	-0.75	V
		V _{CE} = -5V, I _C = -10mA	-	-	-0.82	V
Transition Frequency	f _T	V _{CE} = -5V, I _C = -20mA f = 100MHz	100	-	-	MHz

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)



Package Outline Dimensions (Unit: mm)



SOT-363		
Dimension	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	0.85	1.05
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

Package Outline Dimensions (Unit: mm)

SOT-363

