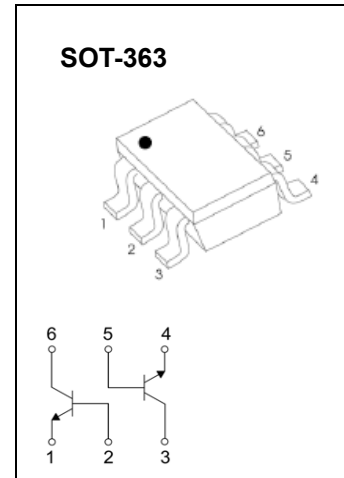


Features

- 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:** 4Ft



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

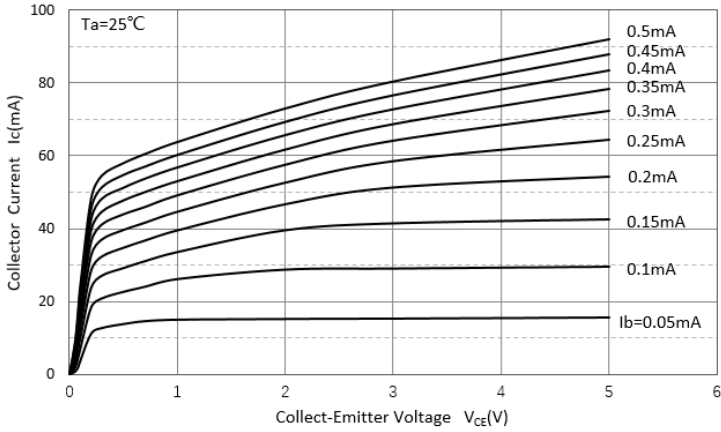
Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V	IC=10μA,IE=0	80
Collector-Emitter Voltage	VCEO	V	IC =10mA,IB=0	65
Emitter-Base Voltage	VEBO	V	IE=10μA,IC=0	6
Collector Current -Continuous	IC	mA		100
Total Device Dissipation	PC	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

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

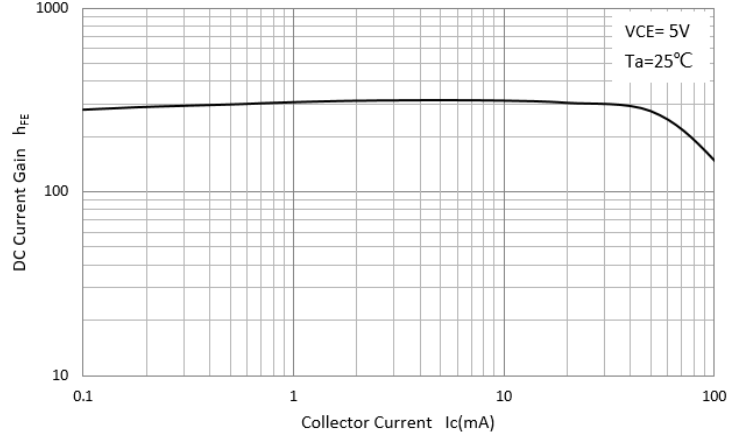
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	VCBO	V	IC=10μA,IE=0	80		
Collector-emitter breakdown voltage	VCEO	V	IC =10mA,IB=0	65		
Emitter-base breakdown voltage	VEBO	V	IE=10μA,IC=0	6		
Collector cut-off current	ICBO	nA	VCB=30V,IB=0			15
Emitter cut-off current	IEBO	nA	VEB=5V, IC=0			500
DC current gain	hFE		VCE=5V,IC=2mA	200		450
Collector-emitter saturation voltage	VCE(sat)	V	IC=10mA,IB=0.5mA			0.25
Collector-emitter saturation voltage	VCE(sat)	V	IC=100mA,IB=5mA			0.65
Base-emitter saturation voltage	VBE(sat)*	V	IC=10mA,IB=0.5mA		0.77	
Transition frequency	fT	MHz	VCE=5V,IC=10mA,f=100MHz		200	

Characteristics (Typical)

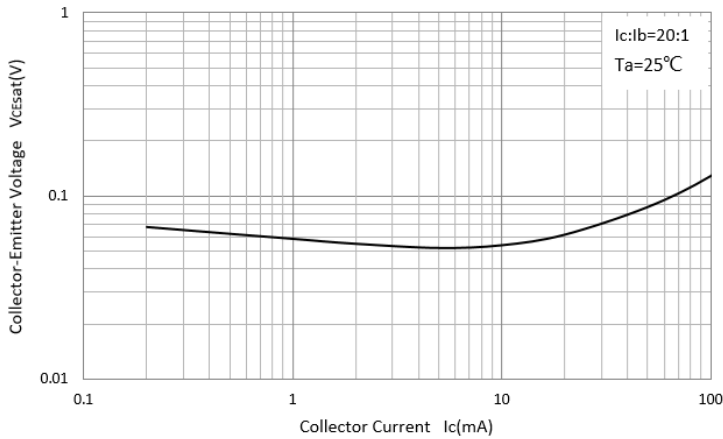
Static Characteristic



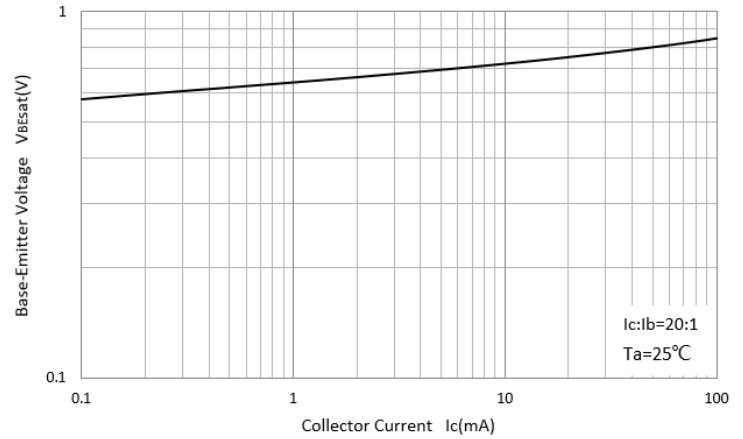
DC Current Gain



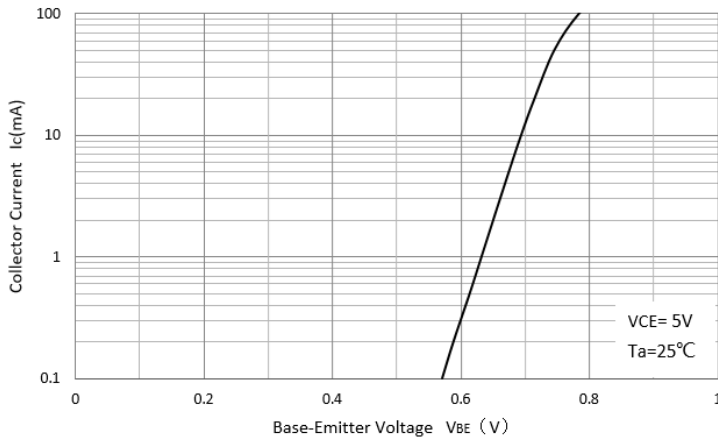
Collector-Emmitter Saturation Voltage



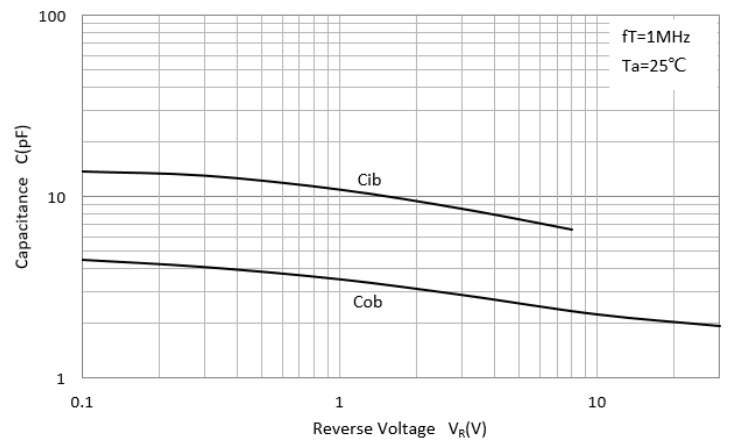
Base-Emmitter Saturation Voltage



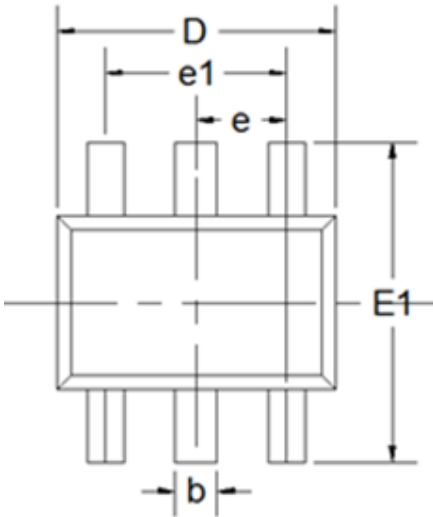
Base-Emmitter On Voltage



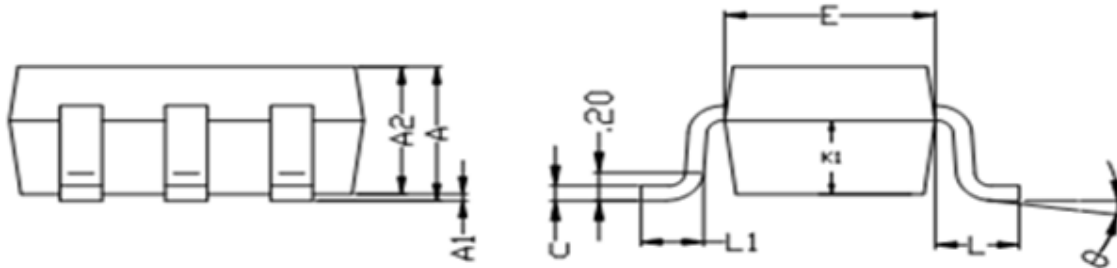
$C_{ob}/C_{ib}-V_{cb}/V_{EB}$



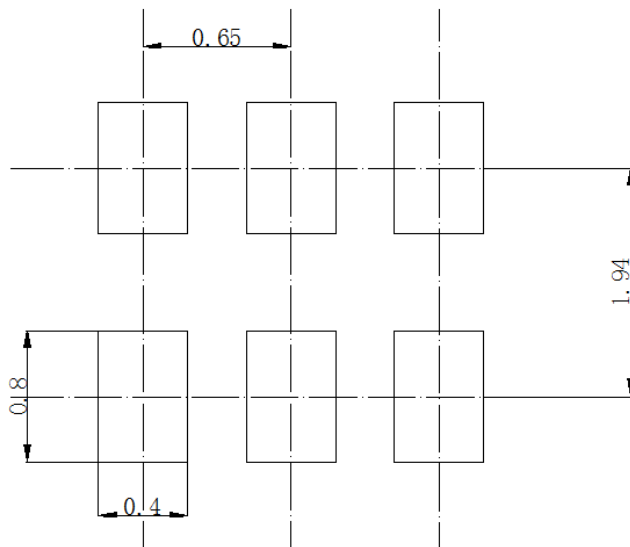
Package Outline Dimensions



DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.043	0.9	1.1
A1	0	0.004	0	0.1
A2	0.035	0.039	0.9	1
b	0.006	0.014	0.15	0.35
c	0.002	0.01	0.05	0.25
D	0.071	0.087	1.8	2.2
E	0.045	0.053	1.15	1.35
E1	0.085	0.096	2.15	2.45
e	0.026Typ		0.65Typ	
e1	0.047	0.055	1.2	1.4
L	0.021Typ		0.525Typ	
L1	0.01	0.018	0.26	0.46
θ	0°	8°	0°	8°



Soldering Footprint



Unit: mm