■Maximum Ratings (Ta=25 Unless otherwise specified

Q1&Q2-NPN

Item	Symbol	Unit	Conditions
Collector-Base Voltage	V_{CBO}	V	I_C=10μA,I_E=0
Collector-Emitter Voltage	V_{CEO}	V	I_C =10mA,I_B=0
Emitter-Base Voltage	V_{EBO}	V	I_E=10μA,I_C=0
Collector Current -Continuous	I_C	mA	
Total Device Dissipation (*)	P_C	mW	
Thermal Resistance Junction to Ambient (*)	R_{thJA}	K/W	
Junction Temperature	Tj		
Storage Temperature	TSTG		

(*) Device mounted on FR-4 PCB 1.0 x 1.0 x 0.06 inch.

■Electrical Characteristics (Ta=25 unless otherwise specified)

Q1&Q2-NPN

Item	Symbol	Unit	Conditions	Min	TYP	
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	I_C=10μA,I_E=0	50		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	I_C =10mA,I_B=0	45		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	I_E=10μA,I_C=0	6		
Collector cut-off current	I_{CBO}	nA	V_{CB}=30V,I_E=0			
Collector cut-off current	I_{EBO}	nA	V_{EB}=5V, I_C=0			
DC current gain	h_{FE}		V_{CE}=5V,I_C=2mA	2		450
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	I_C=10mA,I_B=0.5mA			0.25
			I_C=100mA,I_B=5mA			0.65
Base-emitter saturation voltage	$V_{BE(sat)}$	V	I_C=10mA,I_B=0.5mA			1.05
			I_C=100mA,I_B=5mA			1.1
Base-emitter Voltage	V_{BE}	V	V_{CE}=5V,I_C=2mA			0.7
Transition frequency	Ft	MHz	V_{CE}=5V,IC=10mA,f=30MHz			

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTI

■ Characteristics (Typical)

Q1&Q2-NPN

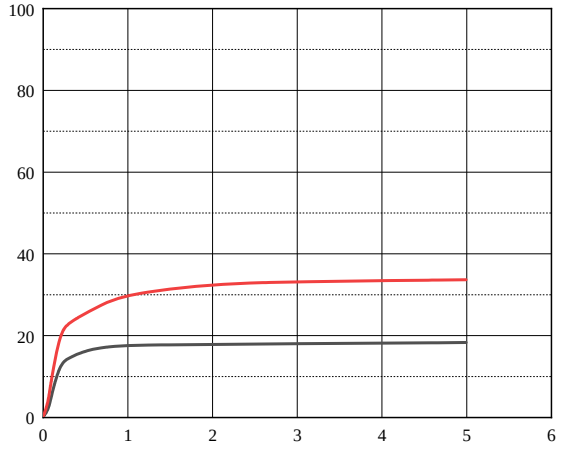


Fig.2 - DC Current Gian

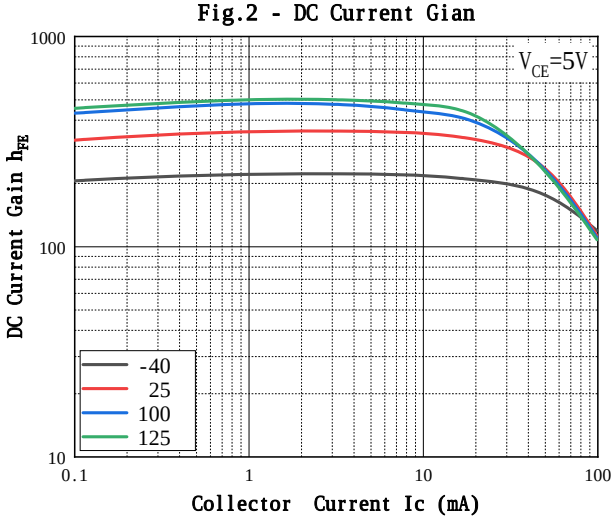


Fig.3 - Collect-Emitter Saturation Voltage

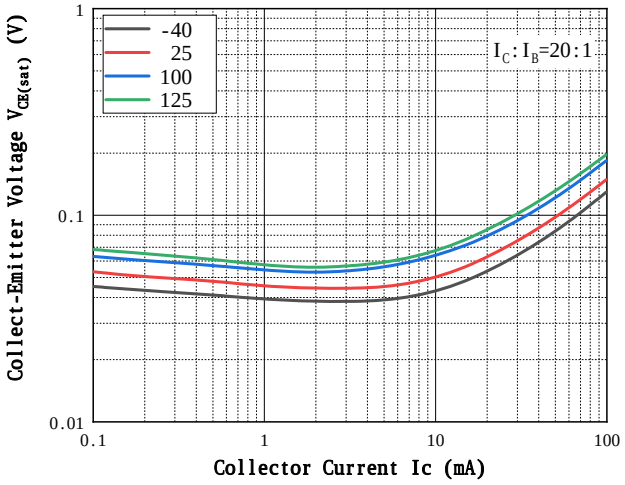


Fig.4 - Base-Emitter Voltage

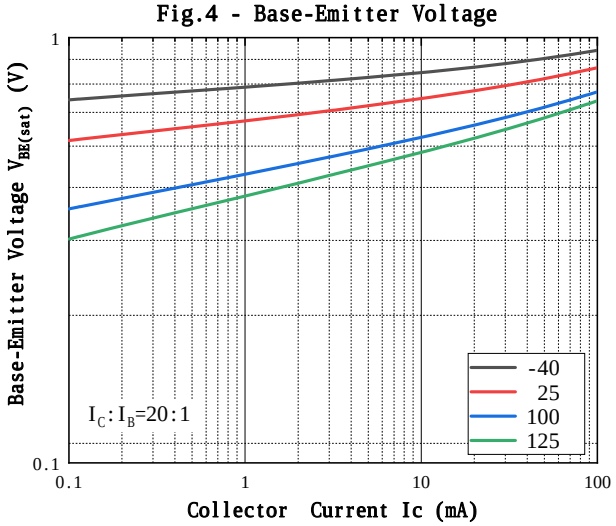


Fig.5 - Base-Emitter On Voltage

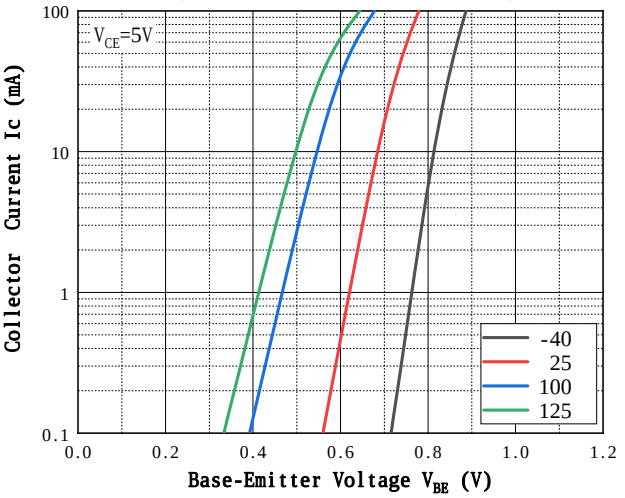
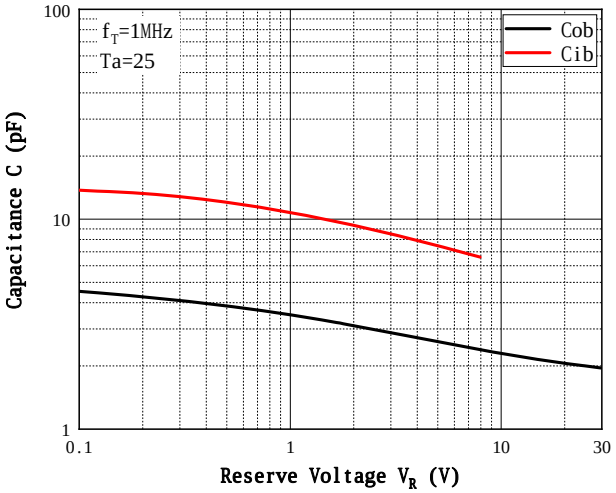
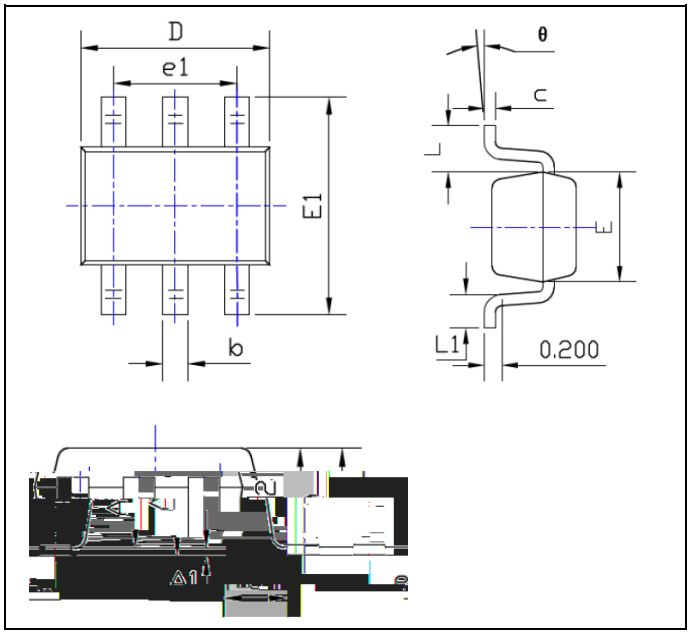


Fig.6 - Cob/Cib—V_{CB}/V_{EB}



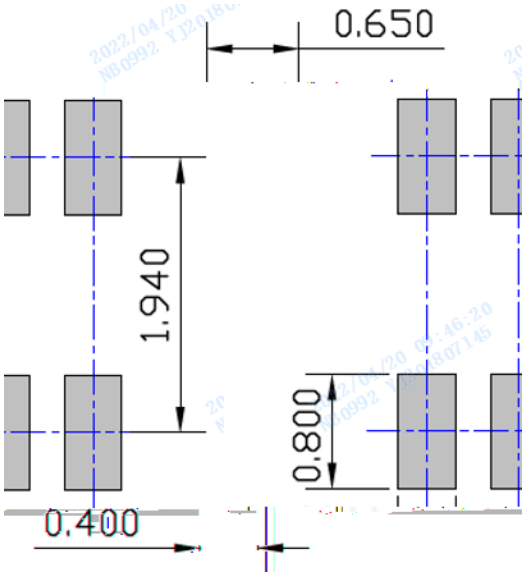
■SOT-363 Package Outline Dimensions



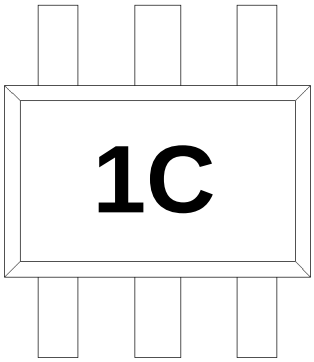
DIMENSIONS

SYMBOL	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX
A	0.035	0.043	0.900	1.100
A1	0.000	0.004	0.000	0.100
A2	0.035	0.039	0.900	1.000
b	0.006	0.010	0.150	0.250
c	0.003	0.007	0.080	0.180
D	0.071	0.087	1.800	2.200
E	0.045	0.053	1.150	1.350
E1	0.085	0.096	2.150	2.450
e	0.026TYP		0.650TYP	
e1	0.047	0.055	1.200	1.400
L	0.021REF		0.525REF	
L1	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°

■SOT-363 Suggested Pad Layout



■ Marking Information



Note:
1. All marking is at middle of the product body
2. All marking is in laser marking
3. 1C is Marking Code
4. Body color: Black

Disclaimer

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