



BC846BPN

RoHS
COMPLIANT

Dual NPN+PNP Small Signal Transistor



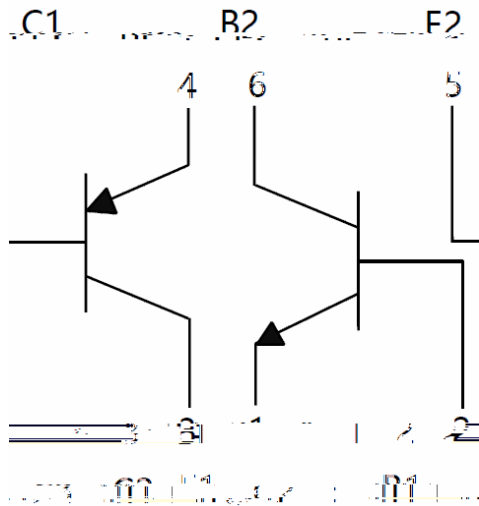
Mechanical Data

Package: SOT-363

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Marking: PJ

Equivalent circuit



Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC846BPN	F2	Approximate 0.009g	3000	30000	120000	7" reel



BC846BPN

TR1 NPN Pin1 2 6 Maximum Ratings (Ta=25 Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V	$I_C=10\mu A, I_E=0$	80
Collector-Emitter Voltage	V_{CEO}	V	$I_C=10mA, I_B=0$	65
Emitter-Base Voltage	V_{EBO}	V	$I_E=10\mu A, I_C=0$	6
Collector Current	I_C	mA		100
Collector Power Dissipation	P_C	mW		200
Junction Temperature	T_J	-		-55 to +150
Storage Temperature	T_{stg}	-		-55 to +150

TR1 NPN Pin1 2 6 Electrical Characteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=10\mu A, I_E=0$	80		
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=10mA, I_B=0$	65		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=10\mu A, I_C=0$	6		

Value
-80
-65
-6
-100
200
-55 to +150
-55 to +150

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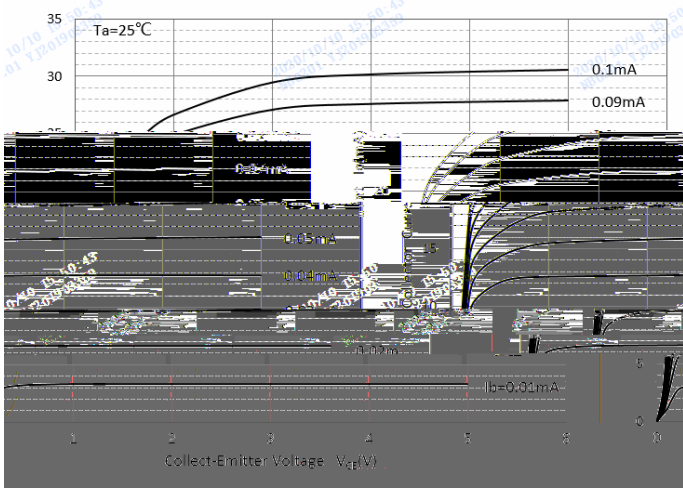
TYP	Max

	-15
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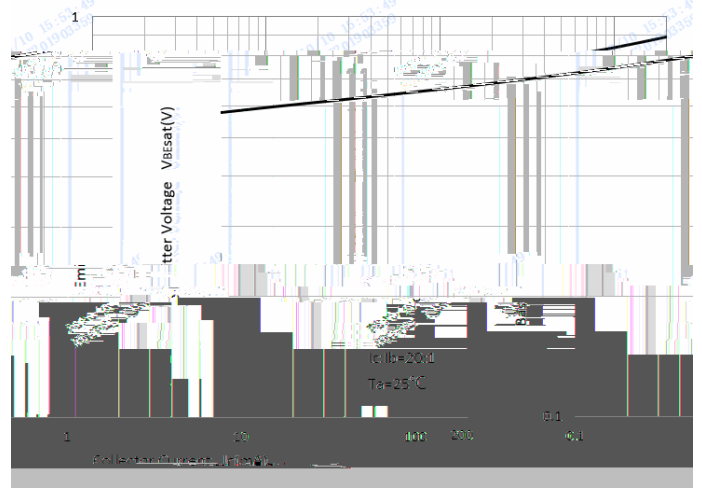


TR1 NPN Pin1 2 6 Characteristics (Typical)

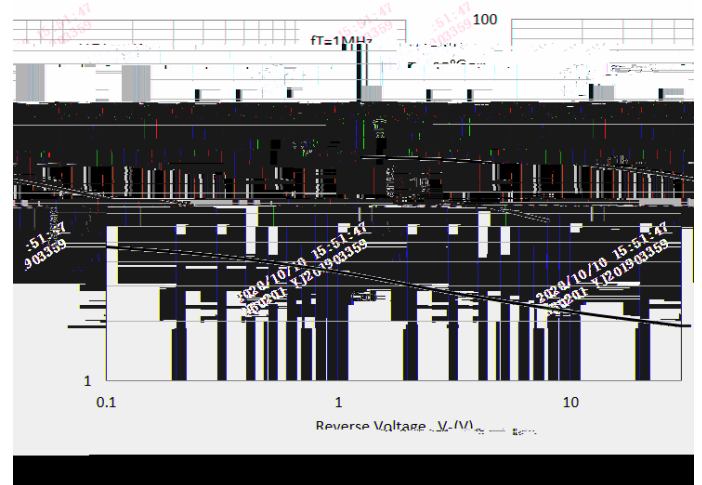
Static Characteristic



Base-Emitter Saturation Voltage



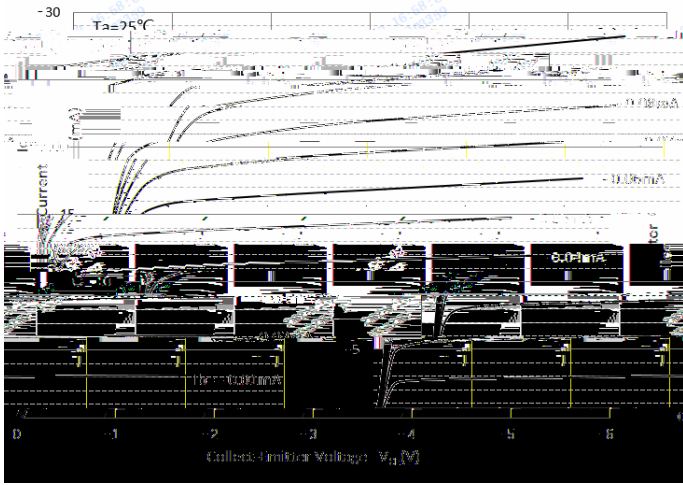
$C_{ob}/C_{ib}=V_{ce}/V_{ce(sat)}$



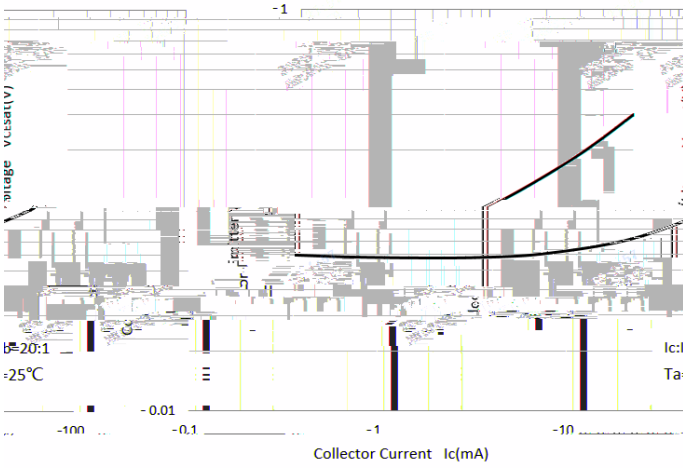


TR2 PNP Pin3 4 5 Characteristics (Typical)

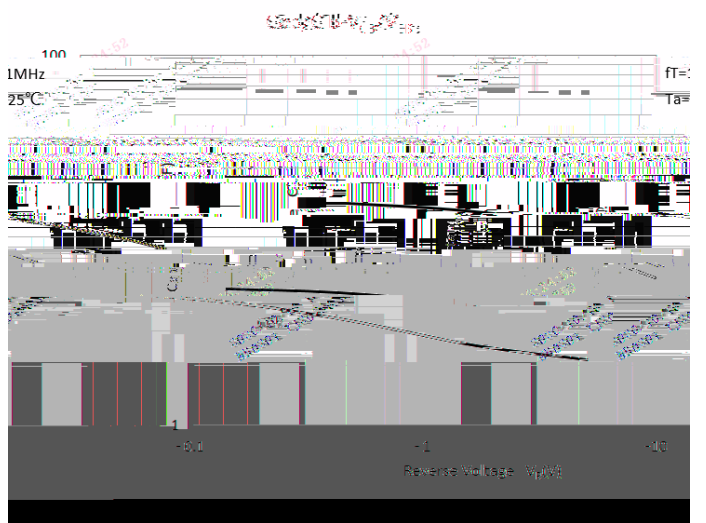
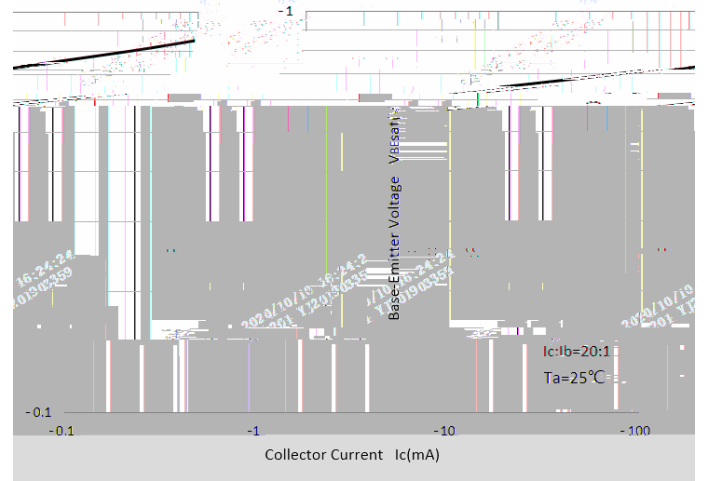
Static Characteristic



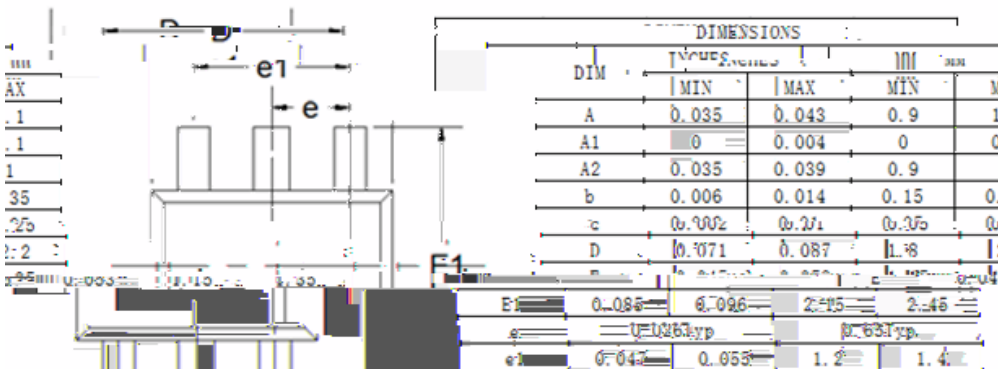
Collector-Emitter Saturation Voltage



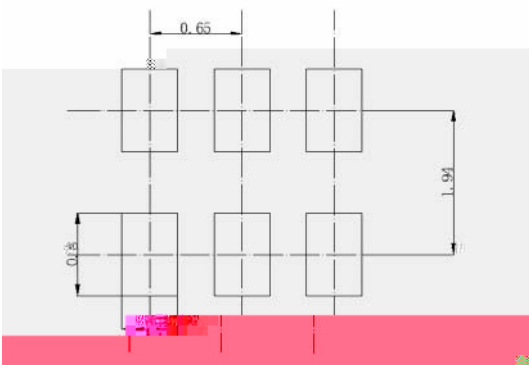
Base-Emitter Saturation Voltage



SOT-363 Package Outline Dimensions



SOT-363 Soldering Footprint





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