



DUAL SURFACE MOUNT NPN/PNP TRANSISTORS (COMPLIMENTARY)

This device contains two electrically-isolated complimentary pair (NPN and PNP)general-purpose transistors. This device is ideal for portable applications where board space is at a premium.

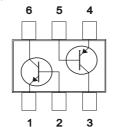
VOLTAGE 65 Volt POWER 225 mWatt

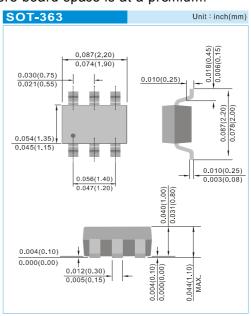
FEATURES

- · General purpose amplifier applications
- Collector current Ic = 100mA
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0002 ounces, 0.006 grams.
- · Marking: 46P





ABSOLUTE RATINGS

NPN

Parameter	Symbol	Value	Units
Collector - Emitter Voltage	VCEO	65	V
Collector - Base Voltage	Vсво	80	V
Emitter - Base Voltage	VEBO	6.0	V
Collector Current - Continuous	Ic	100	mA

PNP

Parameter	Symbol	Value	Units
Collector - Emitter Voltage	VCEO	-65	V
Collector - Base Voltage	Vсво	-80	V
Emitter - Base Voltage	VEBO	-5.0	V
Collector Current - Continuous	Ic	-100	mA





THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Max .Total Power Dissipation	Ртот	225	mW
Junction Temperature range	TJ	T _J -55 to 150	
Storage Temperature range	Тѕтс	-55 to 150	°C

ELECTRICAL CHARACTERISTICS

NPN

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage	V(BR)CEO	Ic=10mA	65	-	-	V
Collector - Base Breakdown Voltage	V(BR)CBO	Ic=10uA,VEB=0	80	-	-	V
Emitter - Base Breakdown Voltage	V(BR)EBO	IE=1.0uA	6.0	-	-	V
Collector-Base Cutoff Current	I сво	VcB=30V, IE=0	-	-	15	nA
DC Current Gain	h _{FE}	Ic=2.0mA, VcE=5V	200	-	450	-
Collector - Emitter Saturation Voltage	VCE(SAT)	Ic=10mA, IB=0.5mA Ic=100mA, IB=5.0mA	-	-	0.25 0.6	V
Base - Emitter Saturation Voltage	VBE(SAT)	Ic=10mA, IB=0.5mA	0.6	-	0.9	V
Gain-Bandwidth Product	fτ	VcE=5V, Ic=10mA f=100MHz	100	-	-	MHz

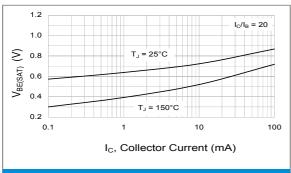
PNP

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage	V(BR)CEO	Ic=-10mA	-65	-	-	V
Collector - Base Breakdown Voltage	V(BR)CBO	IC=-10uA,VEB=0	-80	-	-	V
Emitter - Base Breakdown Voltage	V(BR)EBO	IE=-1.0uA	-5.0	-	-	V
Collector-Base Cutoff Current	I сво	VcB=-30V, IE=0	-	-	-15	nA
DC Current Gain	h _{FE}	Ic=-2.0mA, VcE=-5V	220	-	475	-
Collector - Emitter Saturation Voltage	VCE(SAT)	Ic=-10mA, IB=-0.5mA Ic=-100mA, IB=-5.0mA	-	-	-0.3 -0.65	V
Base - Emitter Saturation Voltage	VBE(SAT)	Ic=-10mA, I _B =-0.5mA	-0.6	-	-0.9	٧
Gain-Bandwidth Product	fτ	VcE=-5V, Ic=-10mA f=100MHz	100	-	-	MHz





NPN ELECTRICAL CHARACTERISTICS CURVE



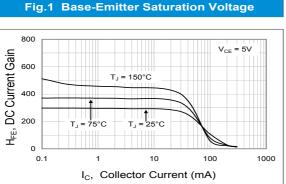


Fig.3 DC Current Gain

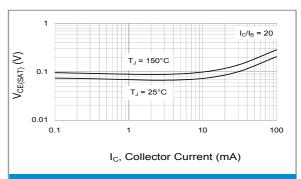


Fig.2 Collector-Emitter Saturation Voltage

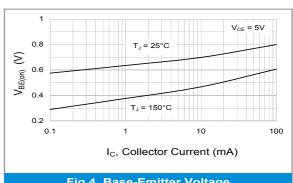


Fig.4 Base-Emitter Voltage

PNP ELECTRICAL CHARACTERISTICS CURVE

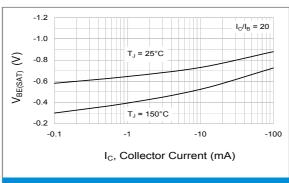


Fig.1 Base-Emitter Saturation Voltage

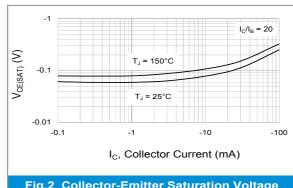
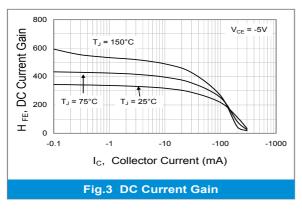
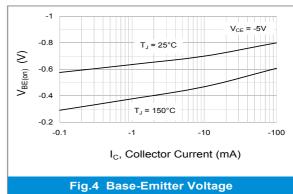


Fig.2 Collector-Emitter Saturation Voltage

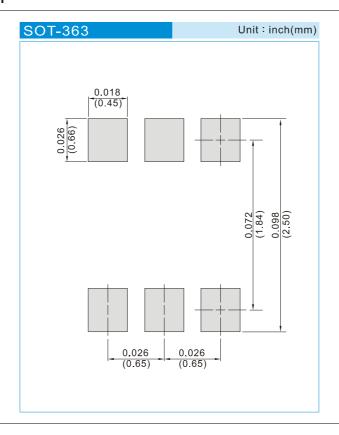








MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BC846BPN_R1_00001 BC846BPN_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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