

Rev.E Mar.-2016

TO-126F

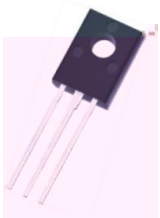
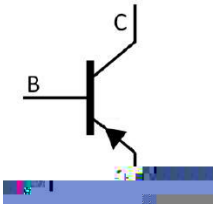
PNP

Silicon PNP transistor in a TO-126F Plastic Package.

BD441

Complementary pair with BD441.

Medium power linear and switching applications.



PIN1 Emitter

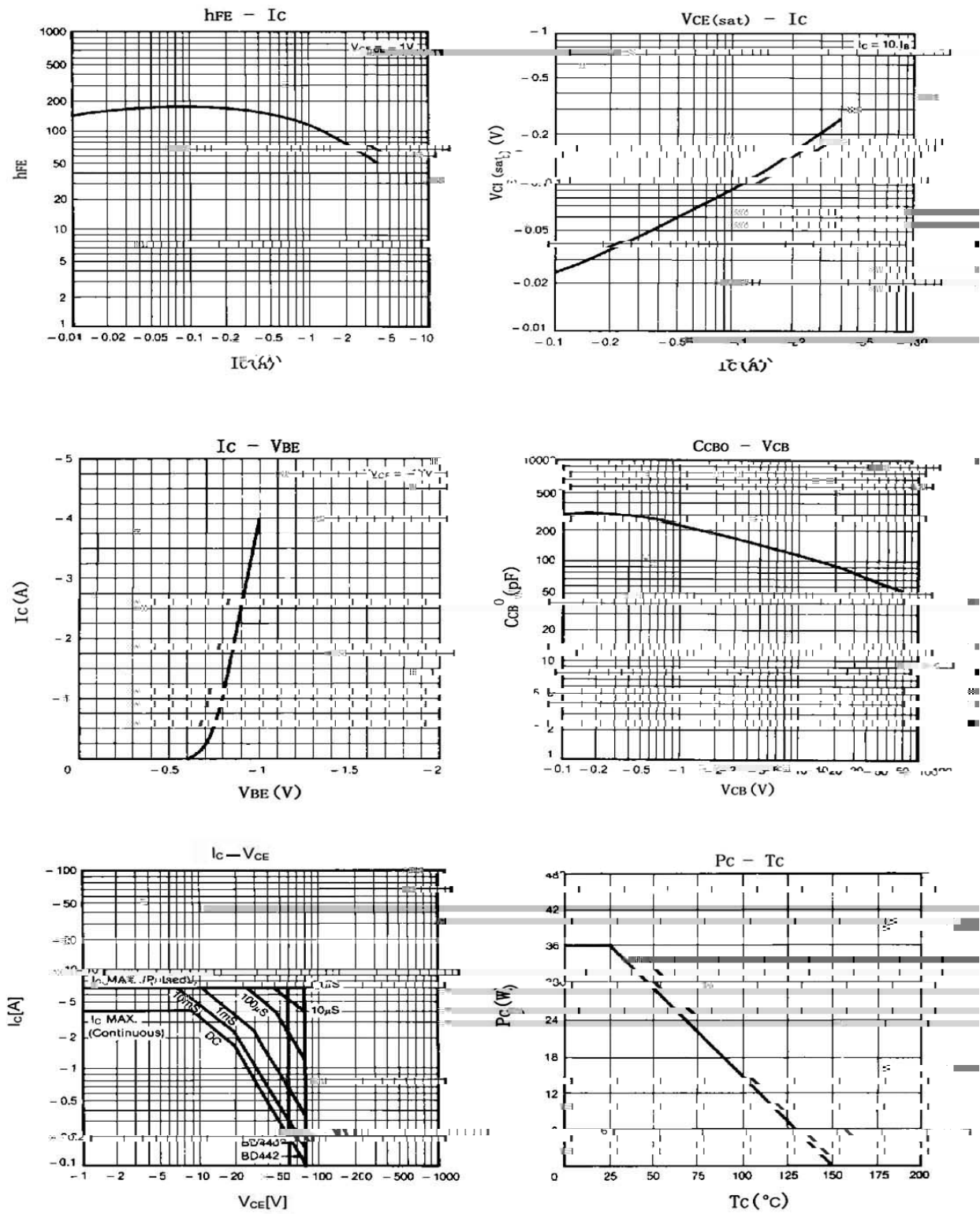
PIN 2 Collector

PIN 3 Base

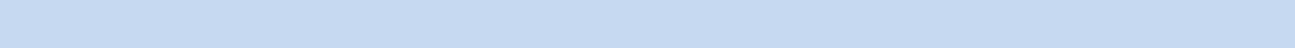
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-80	V
Collector to Emitter Voltage	$V_{CES}$	-80	V
Collector to Emitter Voltage	$V_{CEO}$	-80	V
Emitter to Base Voltage	$V_{EBO}$	-5.0	V
Collector Current - Continuous	$I_C$	-4.0	A
Collector Current – Continuous(Pulse)	$I_{CP}$	-7.0	A
Base Current - Continuous	$I_B$	-1.0	A
Collector Power Dissipation	$P_C(T_C=25)$	36	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-100mA$ $I_B=0$	-80			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-80V$ $I_E=0$			-100	$\mu A$
Collector Cut-Off Current	$I_{CEO}$	$V_{CE}=-80V$ $I_B=0$			-100	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-1.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0V$ $I_C=-500mA$	40	140	475	
	$h_{FE(2)}$	$V_{CE}=-5.0V$ $I_C=-10mA$	15	140		
	$h_{FE(3)}$	$V_{CE}=-1.0V$ $I_C=-2A$	15			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2.0A$ $I_B=-0.2A$			-0.8	V
Base to Emitter Voltage	$V_{BE(1)}$	$V_{CE}=-5.0V$ $I_C=-10mA$		-0.58		V
	$V_{BE(2)}$	$V_{CE}=-1.0V$ $I_C=-2.0A$			-1.5	V
Transition Frequency	$f_T$	$V_{CE}=-1.0V$ $I_C=-250mA$	3.0			MHz







BR

BD442

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Note:

BR: Company Code

BD442: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.



1	25	150	60	90sec;	Note:	1.Preheating:25~150 , Time:60~90sec.
2	255±5		5±0.5sec;		2.Peak Temp.:255±5 , Duration:5±0.5sec.	
3		2	10	/sec.	3. Cooling Speed: 2~10 /sec.	

270±5                      10±1 sec.                      Temp.:270±5                      Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm <sup>3</sup> )
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