

用途:用于中功率线性开关放大。

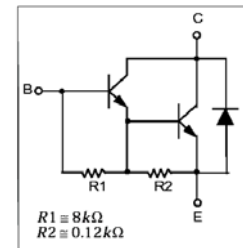
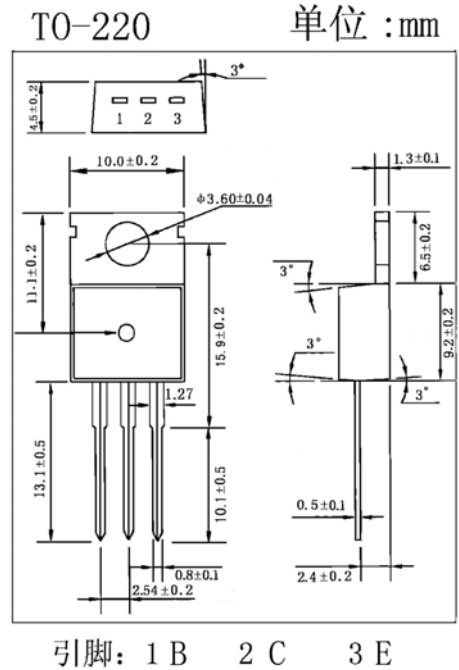
Purpose: Medium power linear switching applications.

特点:与 TIP127 (3CA127) 互补。

Features: Complement to TIP127 (3CA127).

极限参数/Absolute maximum ratings ($T_a=25^\circ\text{C}$)

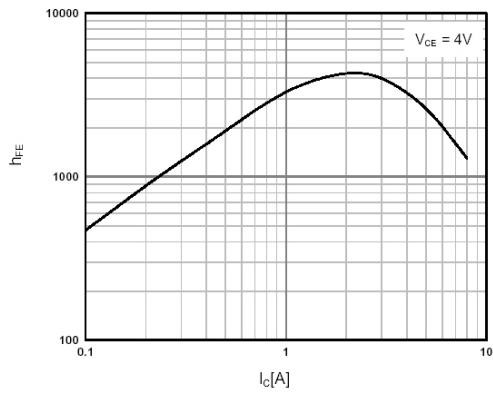
参数符号 Symbol	数值 Rating	单位 Unit
V_{CB0}	100	V
V_{CE0}	100	V
V_{EB0}	5.0	V
I_C	5.0	A
I_{CP}	8.0	A
I_B	120	mA
$P_C (T_a=25^\circ\text{C})$	2.0	W
$P_C (T_c=25^\circ\text{C})$	65	W
T_j	150	$^\circ\text{C}$
T_{stg}	-55~150	$^\circ\text{C}$



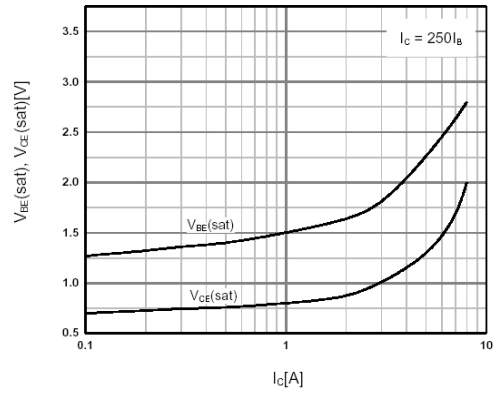
电性能参数/Electrical characteristics ($T_a=25^\circ\text{C}$)

参数符号 Symbol	测试条件 Test condition	数值 Rating			单位 Unit
		最小值 Min	典型值 Typ	最大值 Max	
V_{CE0}	$I_C=100\text{mA}$ $I_B=0$	100			V
I_{CE0}	$V_{CE}=50\text{V}$ $I_B=0$			0.5	mA
I_{CB0}	$V_{CB}=100\text{V}$ $I_E=0$			0.2	mA
I_{EB0}	$V_{EB}=5.0\text{V}$ $I_C=0$			2.0	mA
$h_{FE(1)}$	$V_{CE}=3.0\text{V}$ $I_C=0.5\text{A}$	1000			
$h_{FE(2)}$	$V_{CE}=3.0\text{V}$ $I_C=3.0\text{A}$	1000			
$V_{CE(sat)(1)}$	$I_C=3.0\text{A}$ $I_B=12\text{mA}$			2.0	V
$V_{CE(sat)(2)}$	$I_C=5.0\text{A}$ $I_B=20\text{mA}$			4.0	V
V_{BE}	$I_C=3.0\text{A}$ $V_{CE}=3.0\text{V}$			2.5	V
C_{ob}	$V_{CB}=10\text{V}$ $I_E=0$ $f=0.1\text{MHz}$			200	pF

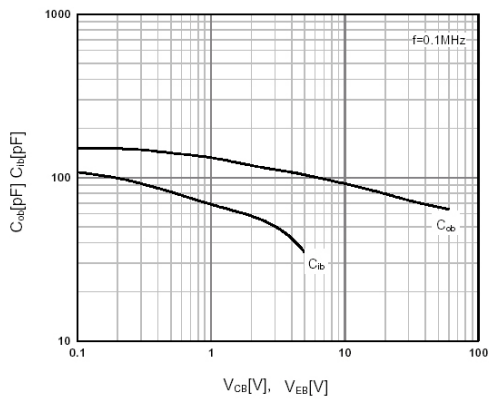
$h_{FE} - I_C$



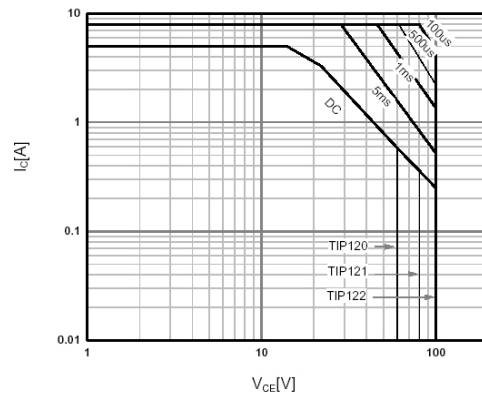
$V_{BE(sat)}, V_{CE(sat)} - I_C$



$C_{ob}, C_{ib} - V_{CB}, V_{EB}$



$I_C - V_{CE}$



$P_c - T_c$

