



用途:用于功率开关和放大。

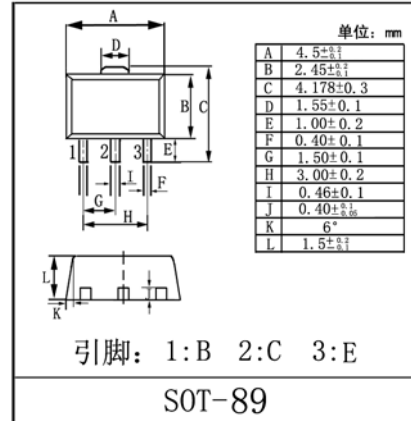
Purpose: Power amplifier and switching applications.

特点: 饱和压降低, 高速开关时间, 体积小, 可与 2SC2873 (3DG2873) 互补。

Features: Low collector saturation voltage, High speed switching time, small flat package, Complementary to 2SC2873 (3DG2873).

极限参数/Absolute maximum ratings (Ta=25°C)

参数符号 Symbol	数值 Rating	单位 Unit
V _{CB0}	-50	V
V _{CE0}	-50	V
V _{EB0}	-5.0	V
I _C	-2.0	A
I _B	-0.4	A
P _C (Ta=25°C)	500	mW
P _C (Ta=25°C)*	1000	mW
T _j	150	°C
T _{stg}	-55~150	°C



*2SA1213 mounted on ceramic substrate (250mm² × 0.8t)

电性能参数/Electrical characteristics (Ta=25°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	
I _{CB0}	V _{CB} = -50V I _E = 0			-0.1	μA
I _{EB0}	V _{EB} = -5.0V I _C = 0			-0.1	μA
V _{CE0}	I _C = -10mA I _B = 0	-50			V
h _{FE(1)}	V _{CE} = -2.0V I _C = -500mA	70		240	
h _{FE(2)}	V _{CE} = -2.0V I _C = -2.0A	20			
V _{CE(sat)}	I _C = -1.0A I _B = -0.05A			-0.5	V
V _{BE(sat)}	I _C = -1.0A I _B = -0.05A			-1.2	V
f _T	V _{CE} = -2.0V I _C = -500mA		120		MHz
C _{ob}	V _{CB} = -10V I _E = 0 f = 1MHz		40		pF
t _{on}	-I _{B1} = I _{B2} = 0.05A V _{CC} = -30V		0.1		μs
t _{stg}			1.0		
t _f			0.1		

h_{FE(1)} 分档、印章标记/h_{FE(1)} Classifications、Marking:

h _{FE(1)} 分档 h _{FE(1)} Classifications	0	Y
h _{FE(1)} 范围 h _{FE(1)} Range	70~140	120~240
印章 Marking	HNO*	HNY*



2SA1213 (3CG1213)

