

Features

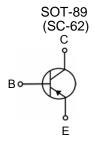
- Complementary to 2SC2873
- Small Flat Package
- Power Amplifier and Switching Applications
- Low Saturation Voltage
- High Speed Switching Time

1.BASE

2.COLLECTOR

3.EMITTER





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2SA1213	SOT-89(SC-62)	NY	1000

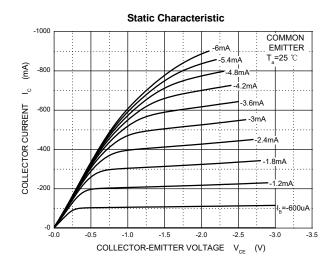
Maxmim Ratings (Ta=25 unless otherwise noted)

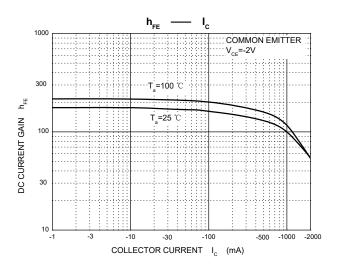
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-2	Α
Pc	Collector Power Dissipation	500	mW
R _{0JA}	Thermal Resistance From Junction To Ambient	250	°C/W
T_J , T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$

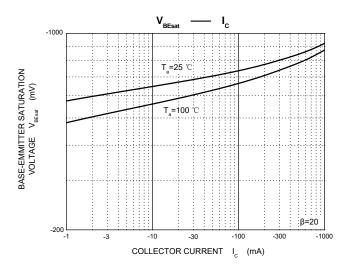
Electrcal Charcteristics (Ta=25 unless otherwise specified)

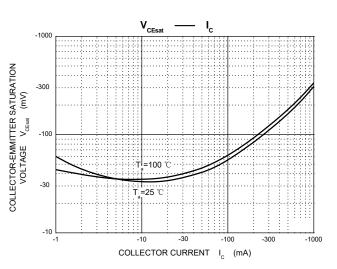
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -0.1mA,I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50V,I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-100	nA
DC current gain	h _{FE}	V _{CE} =-2V, I _C =-500mA	70		240	
DC current gain		V _{CE} =-2V, I _C =-2A	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A,I _B =-50mA			-0.5	٧
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-1A,I _B =-50mA			-1.2	٧
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0, f=1MHz		40		pF
Transition frequency	f _T	Vce=-2V,Ic= -0.5A	100			MHz

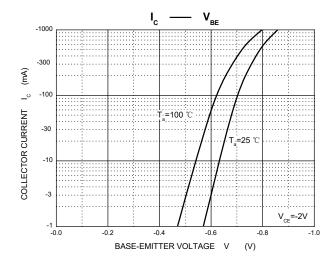
Typical Characteristics

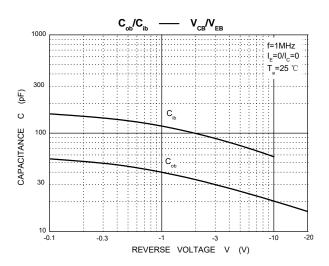


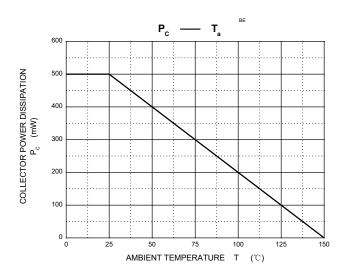




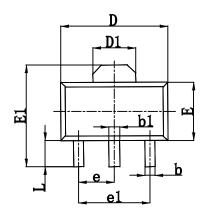


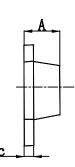






SOT-89(SC-62) Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.400	0.580	0.016	0.023	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.550 REF.		0.061 REF.		
Е	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
е	1.500 TYP.		0.060 TYP.		
e1	3.000 TYP.		0.118 TYP.		
Ĺ	0.900	1.200	0.035	0.047	



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