

isc Silicon PNP Power Transistor

2SA965

DESCRIPTION

- Power amplifier applications
- Driver stage amplifier applications
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

• Designed for Switching and amplification

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-0.8	A
Pc	Collector Power Dissipation @ Ta<50℃	-0.9	W
J	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

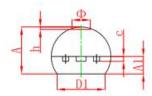
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
Vceo	Collector-base breakdown Voltage	I _C = -10mA; IE= 0	-120			V
VE _{BO}	Emitter-base breakdown Voltage	IE= -1mA; I _C = 0	-5			v
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-1.0	V
V _{BE(on)}	Base-Emitter on Voltage	Vce = -5V, Ic= -500mA			-1.0	V
Ісво	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-100	nA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	nA
h _{FE}	DC Current Gain	I _C =-100mA ; V _{CE} = -5V	-80		-240	

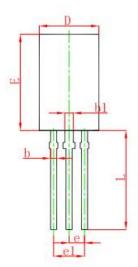


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TO-92MOD Package Outline Dimensions





C b. a.l	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min.	Max.	Min.	Max.
Α	4.800	5.000	0.189	0.197
A1	1.730	2.030	0.068	0.080
b	0.440	0.600	0.017	0.024
b1	0.940	1.100	0.037	0.043
С	0.350	0.450	0.014	0.018
D	5.900	6.100	0.232	0.240
D1	4.000		0.157	202200
E	8.500	8.700	0.335	0.343
е	1.500 TYP.		0.059 TYP.	
e1	2.900	3.100	0.114	0.122
L	13.800	14.200	0.543	0.559
Ф		1.600	- 8	0.063
h	0.000	0.380	0.000	0.015



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