

isc Silicon NPN Transistor

DESCRIPTION

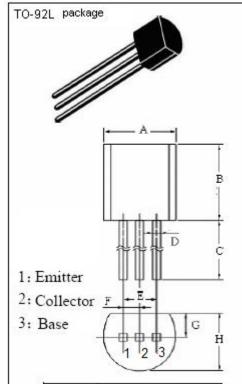
- · Low Collector Saturation Voltage
- Complement to Type 2SA683
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for low frequency power amplification and driver amplification.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	1	Α
I _{CM}	Collector Current-Peak	1.5	А
Pc	Collector Power Dissipation @T _C =25°C	1	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



	mm		
DIM	MIN	MAX	
A	4.80	5.20	
В	7.80	8.20	
С	13.0	14.0	
D	0.35	0.55	
E	2.5	54	
F	1.2	27	
G	1.30	1.50	
Н	3.80	4.20	



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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 2m A ; I _B = 0	25			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μ A ; I _E = 0	30			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10 μ A ; I _C = 0	5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			0.4	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			0.1	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 10V	85		340	
h _{FE-2}	DC Current Gain	Ic= 1A; Vc== 5V	50			
f⊤	Current-Gain—Bandwidth Product	I _E = -50mA;V _{CB} = 10V,f= 200MHz		200		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1MHz		11		pF

♦ h_{FE-1} Classifications

Q	R	S
85-170	120-240	170-340

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