



isc Silicon NPN Transistor

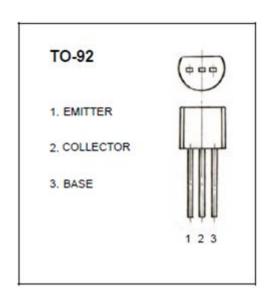
DESCRIPTION

- High hFE(1)=100-320
- 1 Watts Amplifier Applications
- Complement to Type 2SA950
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Audio power amplifier Applications





ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Curren	800	mA
I _B	Base Curren	160	mA
Pc	Collector Power Dissipation @Tc=25°C	600	mW
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



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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 = 10mA; I _B = 0	30			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA ; I _B = 20mA			0.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	I _C = 10mA ; V _{CE} = 1V	0.5		0.8	V
Ісво	Emitter Cutoff Current	V _{CB} = 35V; I _E = 0			0.1	μА
I _{EBO}	Collector Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μА
h _{FE(1)}	DC Current Gain	I _C = 0.1A; V _{CE} = 1V	100		320	
h _{FE(2)}	DC Current Gain	I _C = 0.7A; V _{CE} = 1V	35			
f _⊤	Current-Gain—Bandwidth Product	I _C = 10mA; V _{CE} = 5V; f= 100MHz		120		MHz
Cob	Collector Output Capacitance	V _{CB} =10V; I _E =0; f=1MHz		13		pF

♦ h_{FE(1)} Classifications

0	Y
100-200	160-320

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