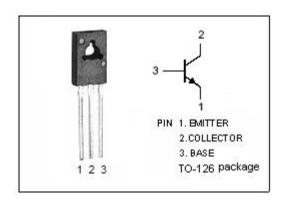


isc Silicon NPN Power Transistor

2SC1953

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 150V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA914
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

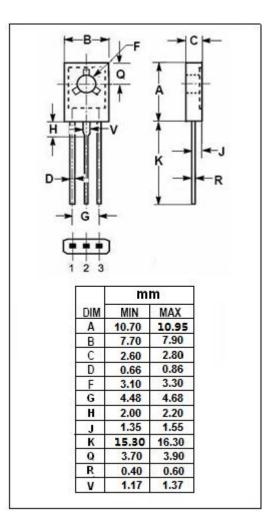


APPLICATIONS

 Designed for low-frequency power pre-amplification, which is optimum for the pre-driver stage of a 60 W to 100 W output amplifier.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	150	V	
$V_{\sf CEO}$	Collector-Emitter Voltage	150	V	
V _{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous	50	mA	
Іср	Collector Current-Peak 100		mA	
Pc	Collector Power Dissipation @ T _a =25℃ 1.2		W	
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 0.1mA ; I _B = 0	150			V
V _{(BR)EBO}	Emitter-Base Breakdown VItage	I _E = 10 μ A ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 30mA; I _B = 3mA			1	V
Ісво	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			1	μ А
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1	μА
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 5V	130		330	
fτ	Current-Gain—Bandwidth Product	I _C = 10mA;V _{CE} = 10V,f _{test} = 200MHz	70			MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V,f _{test} = 1MHz			3	pF

h_{FE} Classifications

Q	R			
130-220	185-330			

NOTICE:

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