

isc Silicon NPN Power Transistor

DESCRIPTION

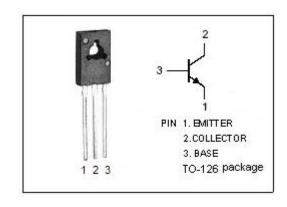
- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 300V(Min)
- Good Linearity of h_{FE}
- Low Saturation Voltage
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

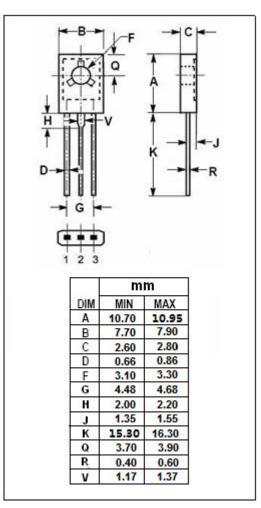


• Designed for use in color TV chroma output and video signal amplification.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous 0.1		А	
Pc	Collector Power Dissipation @ T _C =25°C	5	W	
	Collector Power Dissipation @ T _a =25 ℃	1.2		
TJ	Junction Temperature 150		$^{\circ}$	
T _{stg}	T _{stg} Storage Temperature Range		${\mathbb C}$	







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2SC3272

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	300			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 100 μ A; I _B = 0	300			V
V _{(BR)EBO}	Emitter-Base Breakdown VItage	I _E = 50 μ A; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			0.5	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			0.5	μА
h _{FE}	DC Current Gain	I _C = 10mA; V _{CE} = 10V	39		180	
f⊤	Current-Gain—Bandwidth Product	I _E = -10mA; V _{CE} = 30V	50			MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 30V, f _{test} = 1MHz		3		pF

♦ h_{FE} Classifications

М	N	Р
39-82	56-120	82-180

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