

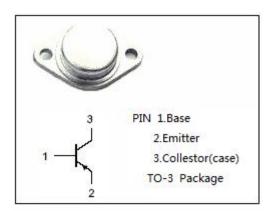
## isc Silicon PNP Power Transistors

#### **DESCRIPTION**

- · Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= -100V(Min)
- · High Power Dissipation-
  - : P<sub>C</sub>= 50W(Max)@T<sub>C</sub>=25°C
- Complement to Type 2SD371
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

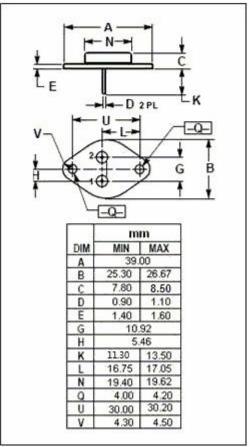


• Designed for power amplifier applications.



# ABSOLUTE MAXIMUM RATINGS( $T_a=25$ °C)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	-100	V	
Vceo	Collector-Emitter Voltage	-100	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-6	А	
le	Emitter Current-Continuous	6	А	
Pc	Collector Power Dissipation @Tc=25°C		W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T <sub>stg</sub>	Storage Temperature	-65~150	$^{\circ}$ C	





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2SB531

#### **ELECTRICAL CHARACTERISTICS**

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -30mA; I <sub>B</sub> = 0	-100			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1mA; I <sub>C</sub> = 0	-5			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -4A; I <sub>B</sub> = -0.4A			-2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -4A; V <sub>CE</sub> = -5V			-1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -60V; I <sub>E</sub> = 0			-0.1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-0.1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -5V	40		240	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -4A; V <sub>CE</sub> = -5V	20			

### ♦ h<sub>FE</sub> Classifications

R	0	Y
40-80	70-140	120-240

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