

# isc Silicon PNP Power Transistor

## 2SB941

### DESCRIPTION

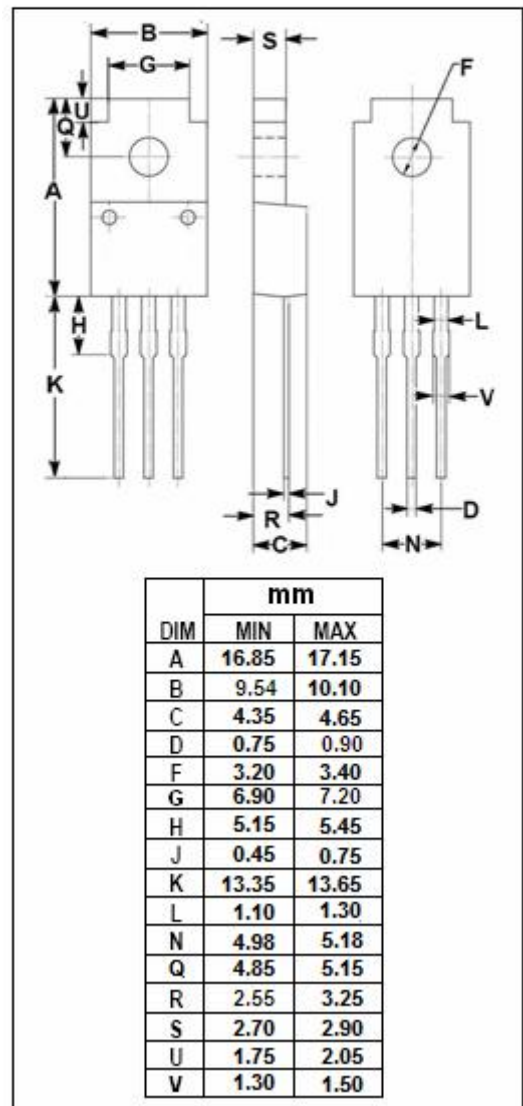
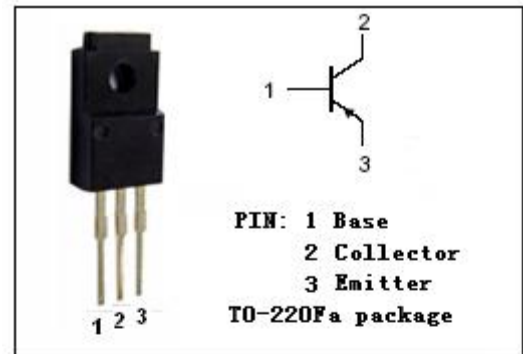
- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = -1.2V(Max) @ I_C = -3A$
- Good Linearity of  $h_{FE}$
- Complement to Type 2SD1266
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Designed for low-frequency power amplifications.

### ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ C$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-60	V
$V_{CEO}$	Collector-Emitter Voltage	-60	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-3	A
$I_{CM}$	Collector Current-Peak	-5	A
$P_C$	Collector Power Dissipation @ $T_a=25^\circ C$	2	W
	Collector Power Dissipation @ $T_c=25^\circ C$	35	
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ C$



**isc Silicon PNP Power Transistor****2SB941****ELECTRICAL CHARACTERISTICS****T<sub>C</sub>=25°C 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	-60			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -3A; I <sub>B</sub> = -0.375A			-1.2	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -3A ; V <sub>CE</sub> = -4V			-1.8	V
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = -60V ; V <sub>BE</sub> = 0			-200	μ A
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = -30V ; I <sub>B</sub> = 0			-300	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V ; I <sub>C</sub> = 0			-1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A ; V <sub>CE</sub> = -4V	70		250	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -3A ; V <sub>CE</sub> = -4V	10			

**◆ h<sub>FE-1</sub> Classifications**

Q	P
70-150	120-250

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