

# isc Silicon PNP Power Transistor

## 2SB919

### DESCRIPTION

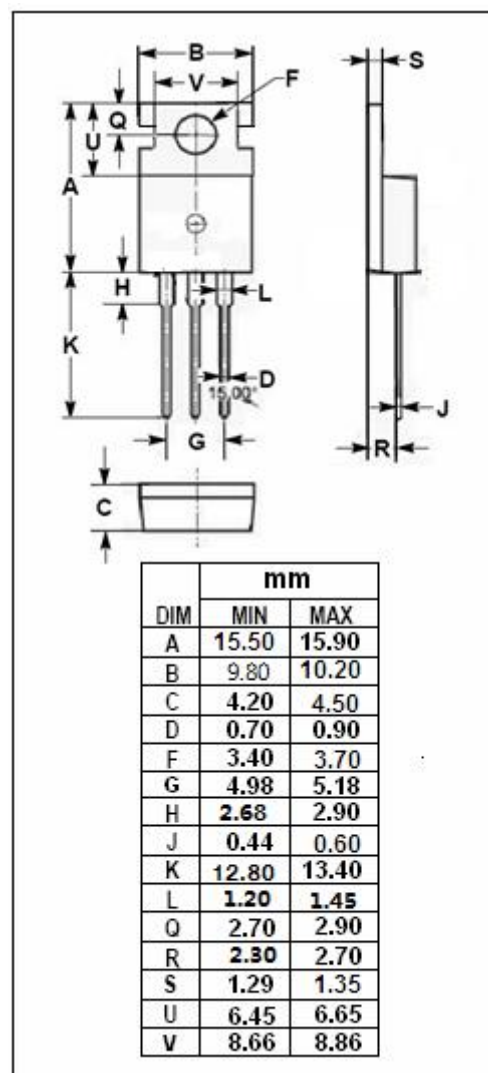
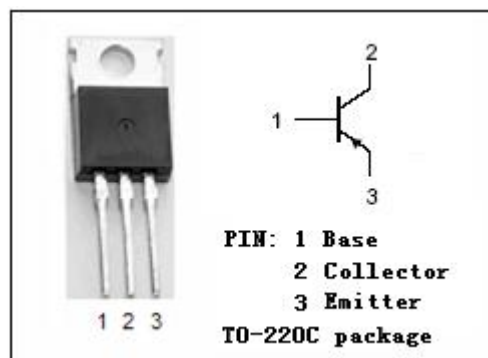
- High Collector Current:  $I_C = -8A$
- Low Collector Saturation Voltage  
:  $V_{CE(sat)} = -0.5V(Max) @ I_C = -3A$
- Complement to Type 2SD1235
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Designed for large current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-60	V
$V_{CEO}$	Collector-Emitter Voltage	-30	V
$V_{EBO}$	Emitter-Base Voltage	-6	V
$I_C$	Collector Current-Continuous	-8	A
$I_{CM}$	Collector Current-Peak	-15	A
$P_C$	Total Power Dissipation @ $T_C=25^{\circ}C$	30	W
	Total Power Dissipation @ $T_a=25^{\circ}C$	1.75	
$T_J$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}C$



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## ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -1\text{mA}; R_{BE} = \infty$	-30			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -1\text{mA}; I_E = 0$	-60			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1\text{mA}; I_C = 0$	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -3\text{A}; I_B = -0.15\text{A}$			-0.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -40\text{V}; I_E = 0$			-0.1	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -4\text{V}; I_C = 0$			-0.1	mA
$h_{FE-1}$	DC Current Gain	$I_C = -1\text{A}; V_{CE} = -2\text{V}$	70		280	
$h_{FE-2}$	DC Current Gain	$I_C = -4\text{A}; V_{CE} = -2\text{V}$	30			
$f_T$	Current-Gain—Bandwidth Product	$I_C = -1\text{A}; V_{CE} = -5\text{V}$		120		MHz

◆  $h_{FE-1}$  Classifications

Q	R	S
70-140	100-200	140-280

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