

## isc Silicon NPN Transistor

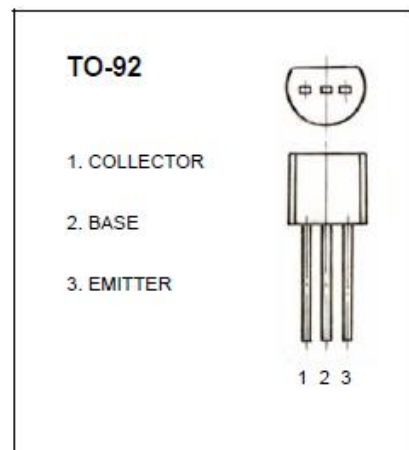
## BC337

## DESCRIPTION

- Low Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- For AF-Driver stages and low power output stages.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	50	V
$V_{CEO}$	Collector-Emitter Voltage	45	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	800	mA
$P_C$	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	625	mW
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

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## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C=100\text{ }\mu\text{A}$ ; $I_E=0$	50			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}$ ; $I_B=0$	45			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=100\text{ }\mu\text{A}$ ; $I_C=0$	5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=500\text{mA}$ ; $I_B=50\text{mA}$			0.7	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=300\text{mA}$ ; $V_{CE}=1\text{V}$			1.2	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=45\text{V}$ ; $I_E=0$			0.1	$\mu\text{A}$
$I_{CEO}$	Collector Cutoff Current	$V_{CE}=40\text{V}$ ; $I_B=0$			0.2	$\mu\text{A}$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}=4\text{V}$ ; $I_C=0$			0.1	$\mu\text{A}$
$h_{FE}$	DC Current Gain	$I_C=100\text{mA}$ ; $V_{CE}=1\text{V}$	100		630	
$f_T$	Current-Gain—Bandwidth Product	$I_C=10\text{mA}$ ; $V_{CE}=5\text{V}$ ; $f=100\text{MHz}$	210			MHz

#### ◆ $h_{FE}$ Classifications

16	25	40
100-250	160-400	250-630

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