



## APPLICATIONS

The H945 is designed for driver stage of AF amplifier  
And low speed switching.

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

$T_{stg}$ —Storage Temperature.....	-55~150 $^{\circ}\text{C}$
$T_j$ —Junction Temperature.....	150 $^{\circ}\text{C}$
$P_C$ —Collector Dissipation.....	250mW
$V_{CB0}$ —Collector-Base Voltage.....	60V
$V_{CE0}$ —Collector-Emitter Voltage.....	50V
$V_{EB0}$ —Emitter-Base Voltage.....	5V
$I_C$ —Collector Current.....	150mA

TO-92



- 1 – Emitter , E
- 2 – Collector , C
- 3 – Base , B

## ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ )

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
$BV_{CB0}$	Collector-Base Breakdown Voltage	60			V	$I_C=100\mu\text{A}$ , $I_E=0$
$BV_{CE0}$	Collector-Emitter Breakdown Voltage	50			V	$I_C=100\mu\text{A}$ , $I_B=0$
$BV_{EB0}$	Emitter-Base Breakdown Voltage	5			V	$I_E=10\text{mA}$ , $I_C=0$
$h_{FE}$	DC Current Gain	90				$V_{CE}=6\text{V}$ , $I_C=1\text{mA}$
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.4		V	$I_E=I_C=10\text{mA}$
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		1.0		V	$I_E=100\text{mA}$ , $I_C=10\text{mA}$
$I_{CBO}$	Collector Cut-off Current			10	nA	$V_{CB}=60\text{V}$ , $I_E=0$
$I_{EBO}$	Emitter Cut-off Current			10	nA	$V_{EB}=5\text{V}$ , $I_C=0$
$f_T$	Current Gain-Bandwidth Product		250		MHz	$V_{CE}=6\text{V}$ , $I_C=10\text{mA}$
$C_{ob}$	Output Capacitance		3.0		pF	$V_{CB}=6\text{V}$ , $I_E=0$ , $f=1\text{MHz}$
NF	Noise Figure		4.0		dB	$V_{CE}=6\text{V}$ , $I_C=0.5\text{mA}$ , $f=1\text{KHz}$ , $R_s=500\Omega$

## hFE Classification

R	Q	P	K
90—180	135—270	200—400	300—600

# H945 Transistor User Guide

**RS Peters**



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