# Transistors BC338

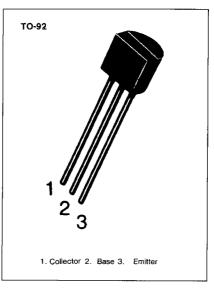


#### SWITCHING AND AMPLIFIER APPLICATIONS

• SUITABLE FOR AF-DRIVER STAGES AND LOW POWER OUTPUT STAGES •Complement to BC327/BC328

### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector Emitter Voltage	V <sub>CES</sub>		
Collector Emitter Voltage	V <sub>CEO</sub>	30	v
Emitter-Base Voltage Collector Current (DC) Collector Dissipation Junction Temperature Storage Temperature	V <sub>EBO</sub> Ic Pc Tj Tstg	25 5 800 625 150 ~55~150	V V mA mW °C °C



## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector Emitter Breakdown Voltage	BV <sub>CEO</sub>	$I_{\rm C}$ =10mA, $I_{\rm B}$ =0				
Collector Emitter Breakdown Voltage	BV <sub>CES</sub>	I <sub>C</sub> =0.1mA, I <sub>B</sub> =0	25			v
Emitter Base Breakdown Voltage Collector Cutoff Current	BV <sub>EBO</sub> ICES	I <sub>E</sub> =0.1mA, I <sub>C</sub> =0	30 5			v v
DC Current Gain Collector Emitter Saturation Voltage	h <sub>FE</sub> h <sub>FE</sub> 2 V <sub>CE</sub> (sat)	$V_{CE}=25V, I_B=0$ $V_{CE}=1V, I_C=100mA$ $V_{CE}=1V, I_C=300mA$ $I_C=500mA, I_B=50mA$	100 60	2	100 630 0.7	nA V
Base Emitter On Voltage Current Gain Bandwidth Product	V <sub>BE</sub> (on)	$V_{CE} = 1V$ , $I_C = 300 \text{mA}$ $V_{CE} = 5V$ , $I_C = 10 \text{mA}$ ,		100	1.2	V MHz
Collector Base Capacitance	C <sub>CBO</sub>	V <sub>CB</sub> =10V, f=1 <b>MH</b> z		12		pF

#### hFE CLASSIFICATION

Classification	16	25	40
h <sub>FE</sub>	100-250	160-400	250-630
h <sub>FE</sub> 2	60-	100-	170-

