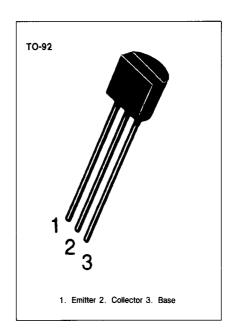
## Transistors BC638



## SWITCHING AND AMPLIFIER APPLICATIONS

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

Characteristic	Symbol	Rating	Unit
Collector Emitter Voltage at R <sub>BE</sub> = 1Kohm	V <sub>CER</sub>	- 60	v
Collector Emitter Voltage	V <sub>CES</sub>	- 60	v
Collector Emitter Voltage	V <sub>CEO</sub>	- 60	v
Emitter Base Voltage	V <sub>EBO</sub>	-5	v
Collector Current	Ic	<b>– 1</b>	Α
Peak Collector Current	1 <sub>CP</sub>	- 1.5	Α
Base Current	l <sub>B</sub>	100	mA
Collector Dissipation	Pc	1	W
Junction Temperature	T <sub>i</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	<b>−65~150</b>	°C



## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =-10mA, I <sub>B</sub> =0				
			-60			v
Collector Cutoff Current Emitter Cutoff Current DC Current Gain	Iсво I <sub>ЕВО</sub> h <sub>FE</sub>	$V_{CB} = -30V$ , $I_{E} = 0$ $V_{EB} = -5V$ , $I_{C} = 0$ $V_{CE} = -2V$ , $I_{C} = -5mA$	25		-0.1 -0.1	μA μA
		V <sub>CE</sub> =-2V, I <sub>C</sub> =-150mA	40		160	
Collector Emitter Saturation Voltage Base Emitter On Voltage Current Gain Bandwidth Product	V <sub>CE</sub> (sat) V <sub>BE</sub> (on)	$V_{CE} = -2V$ , $I_{C} = -500$ mA $I_{C} = -500$ mA, $I_{B} = -50$ mA $V_{CE} = -2V$ , $I_{C} = -500$ mA $V_{CF} = -5V$ , $I_{C} = -10$ mA,	25	100	-0.5 -1	V V MHz
Out of Calif Barawidin Floudet		f=50MHz				

