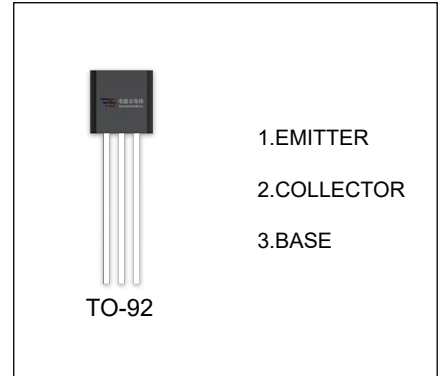


## 2SC388 TRANSISTOR (NPN)

### FEATURES

- TV Final Pictureif Amplifier Applications



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC388	TO-92	Bulk	1000pcs/Bag
2SC388-TA	TO-92	Tape	2000pcs/Box

### MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Emitter Voltage	30	V
$V_{CEO}$	Collector-Emitter Voltage	25	V
$V_{EBO}$	Emitter-Base Voltage	4	V
$I_C$	Collector Current -Continuous	50	mA
$P_C$	Collector Power dissipation	300	mW
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55-150	$^{\circ}\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu\text{A}, I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=5\text{mA}, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu\text{A}, I_C=0$	4			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=30\text{V}, I_E=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=3\text{V}, I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE}=12.5\text{V}, I_C=12.5\text{mA}$	20		200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{mA}$			0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{mA}$			1.2	V
Transition frequency	$f_T$	$V_{CE}=12.5\text{V}, I_C=12.5\text{mA}$	300			MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	0.8		2	pF
Power Gain	$G_{pe}$	$V_{CC}=12.5\text{V}, I_E=-12.5\text{mA}, f=45\text{MHz}$	28		36	dB