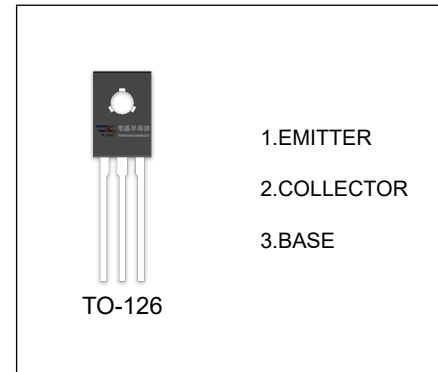


## 2SC2688 TRANSISTOR (NPN)

### FEATURES

- Color TV chroma out pupt circuits



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2688	TO-126	Bulk	200pcs/Bag
2SC2688-TU	TO-126	Tube	60pcs/Tube

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

Symbol	Parameter	Value	Unit
$V_{CB0}$	Collector-Emitter Voltage	300	V
$V_{CE0}$	Collector-Emitter Voltage	300	V
$V_{EB0}$	Emitter-Base Voltage	5	V
$I_c$	Collector Current -Continuous	200	mA
$P_c$	Power Power dissipation	1.25	W
$T_J, T_{stg}$	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	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	300			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	300			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=200\text{V}, I_E=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=10\text{V}, I_C=10\text{mA}$	40		250	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			0.5	V
Transition frequency	$f_T$	$V_{CE}=30\text{V}, I_C=10\text{mA}$	50			MHz

#### CLASSIFICATION OF $h_{FE}$

Rank	N	M	L	K
Range	40-80	60-120	100-200	160-250

**Static Characteristic**

