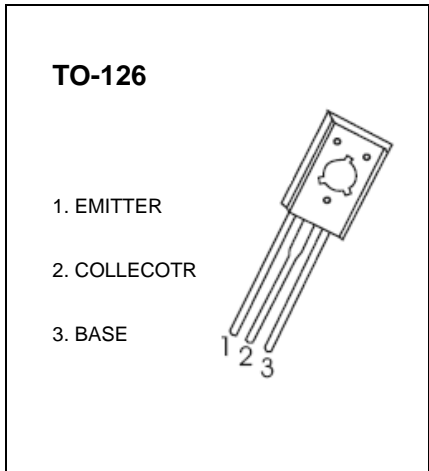


TO-126 Plastic-Encapsulate Transistors

2SC2688 TRANSISTOR (NPN)

FEATURES

- Color TV chroma out pupt circuits



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Emitter Voltage	300	V
V _{CE0}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	5	V
I _c	Collector Current -Continuous	200	mA
P _c	Power Power dissipation	1.25	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100µA, I _E = 0	300			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B = 0	300			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100µA, I _C = 0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 200V, I _E = 0			0.1	µA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C = 0			0.1	µA
DC current gain	h _{FE}	V _{CE} = 10V, I _C = 10mA	40		250	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 50mA, I _B = 5mA			0.5	V
Transition frequency	f _T	V _{CE} = 30V, I _C = 10mA	50			MHz

CLASSIFICATION OF h_{FE}

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