

/ Descriptions

WO0220I NPN Silicon NPN transistor in a TO-220F Plastic Package.

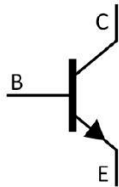
/ Features

High breakdown voltage, low collector output capacitance, wide SOA.

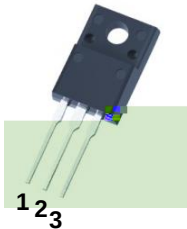
/ Applications

Ideal for Color TV chroma output and amplification of video signals.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

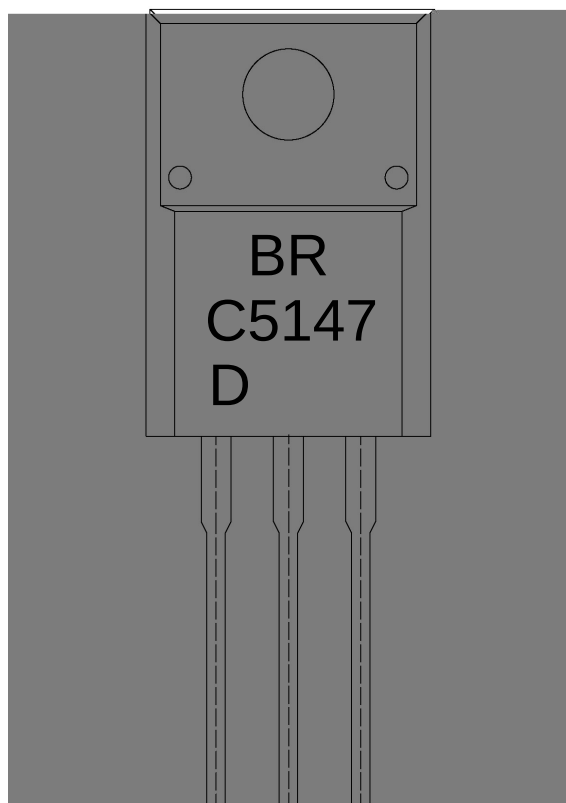
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	D	E
h_{FE} Range	60 120	100 200

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	300	V
Collector to Emitter Voltage	V_{CEO}	300	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	100	mA
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	10	W
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=50\mu A$ $I_E=0$	300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=100\mu A$ $I_B=0$	300			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=50\mu A$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=200V$ $I_B=0$			0.5	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4.0V$ $I_B=0$			0.5	μA
DC Current Gain	h_{FE}	$V_{CE}=10V$ $I_C=10mA$	60		200	

/ Marking Instructions



BR

C514 :

D: h_{FE}

Note:

BR: Company Code.

C5147: Product Type.

D: h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

