



Silicon NPN Switching Transistors

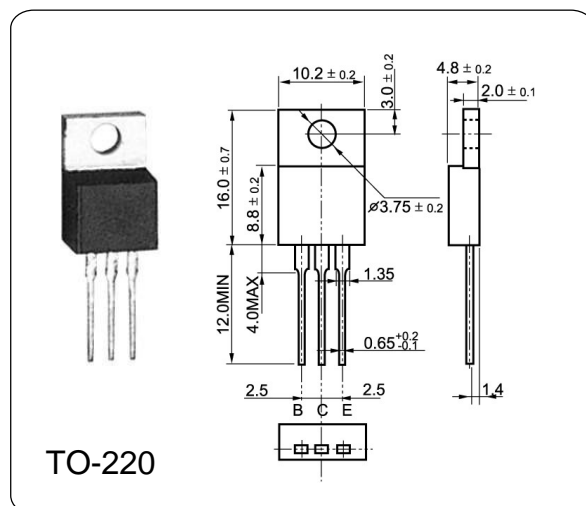
2N6292

DESCRIPTION

It is intended for use in power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	7.0	A
Base Current	I_B	3.0	A
Total Dissipation at	P_{tot}	40	W
Max. Operating Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I_{CEO}	$V_{CB}=80V, I_E=0$	—	—	0.3	mA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	—	—	1.0	mA
Collector-Emitter Sustaining Voltage	V_{CEO}	$I_C=30mA, I_B=0$	80	—	—	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=4V, I_C=0.5A$	30	—	—	
	$h_{FE(2)}$	$V_{CE}=4V, I_C=2.0A$	30	—	150	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.0A, I_B=400mA$	—	—	1.5	V
Base-Emitter on Voltage	$V_{BE(on)}$	$V_{CE}=4V, I_C=4.0A$	—	—	2.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=4.0V, I_C=500mA$	4	—	—	MHz