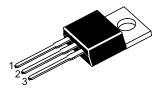
NPN Silicon Transistor

for high voltage, high-speed power switching application



1.Base 2.Collector 3.Emitter TO-220 Plastic Package

Absolute Maximum Ratings (T. = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	700	V
Collector Emitter Voltage	V _{CEO}	400	V
Emitter Base Voltage	V _{EBO}	9	V
Collector Current	I _C	8	А
Total Power Dissipation (T _a = 25 °C)	P _{tot}	2	W
Total Power Dissipation (T _C = 25 °C)	P _{tot}	80	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T₂ = 25 °C

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 5 \text{ V}$, $I_C = 2 \text{ A}$	h _{FE}	8	40	-
Collector Base Cutoff Current at $V_{CB} = 700 \text{ V}$	I _{CBO}	-	1	mA
Emitter Base Cutoff Current at $V_{EB} = 9 \text{ V}$	I _{EBO}	-	1	mA
Collector Base Breakdown Voltage at $I_C = 1 \text{ mA}$	V _{(BR)CBO}	700	-	V
Collector Emitter Breakdown Voltage at $I_C = 10 \text{ mA}$	V _{(BR)CEO}	400	-	V
Emitter Base Breakdown Voltage at $I_E = 1 \text{ mA}$	$V_{(BR)EBO}$	9	-	V
Collector Emitter Saturation Voltage at $I_C = 5 A$, $I_B = 1 A$	V _{CE(sat)}	-	2	V
Base Emitter Saturation Voltage at $I_C = 5 A$, $I_B = 1 A$	V _{BE(sat)}	-	1.6	V
Transition Frequency at $V_{CE} = 10 \text{ V}$, $I_C = 0.5 \text{ A}$	f _T	4	-	MHz





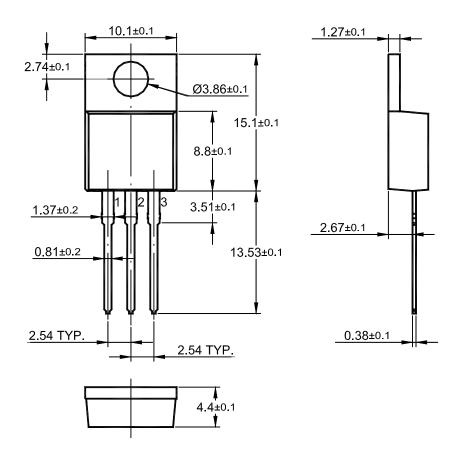






Dated: 17/09/2016 Rev: 01

TO-220 PACKAGE OUTLINE



Dimensions in mm









