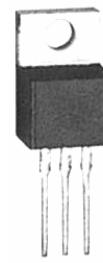


2N5298

Silicon NPN Transistors

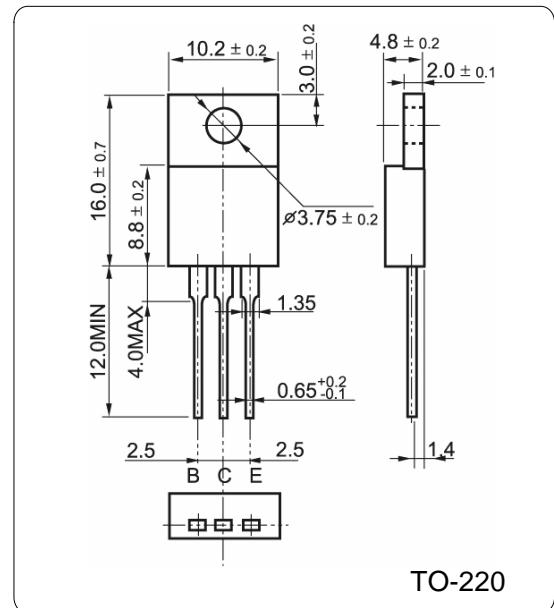


◆ Features

- With TO-220 package
- Designed for use in general purpose amplifier and switching applications

◆ Absolute Maximum Ratings Tc=25°C

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to base voltage	80	V
V _{CEO}	Collector to emitter voltage	60	V
V _{EBO}	Emitter to base voltage	5.0	V
I _{CP}	Peak collector current	5.0	A
I _C	Collector current	4.0	A
P _C	Collector power dissipation	36	W
T _j	Junction temperature	-65~150	°C
T _{stg}	Storage temperature	-65~150	°C



TO-220

◆ Electrical Characteristics Tc=25°C

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{CBO}	Collector-base cut-off current	V _{CB} = 80V; I _E =0		0.2	mA
I _{EBO}	Emitter-base cut-off current	V _{EB} = 5V; I _C =0		1.0	mA
I _{CEO}	Collector-emitter cut-off current	V _{CE} =60V, I _B =0		0.3	mA
V _{CBO}	Collector-base breakdown voltage				
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =30mA, I _B =0	60		V
V _{EBO}	Emitter-base breakdown voltage				
V _{CEsat-1}	Collector-emitter saturation voltages	I _C = 3A; I _B = 375mA		1.2	V
V _{CEsat-2}	Collector-emitter saturation voltages				
V _{CEsat-3}	Collector-emitter saturation voltages				
V _{CEsat-4}	Collector-emitter saturation voltages				
h _{FE-1}	Forward current transfer ratio	I _C =1A, V _{CE} =4V	25		
h _{FE-2}	Forward current transfer ratio	I _C =3A, V _{CE} =4V	10	50	
h _{FE-3}	Forward current transfer ratio				
h _{FE-4}	Forward current transfer ratio				
V _{BE(sat)1}	Base-emitter saturation voltages	I _C =3A, V _{CE} =4V		1.8	V
V _{BE(sat)2}	Base-emitter saturation voltages				
V _{BE(sat)3}	Base-emitter saturation voltages				
f _T	Transition frequency at f = 1MHz	I _C =0.5A, V _{CE} =10V	3.0		
t _f	Fall time				
t _s	Turn-off storage time				