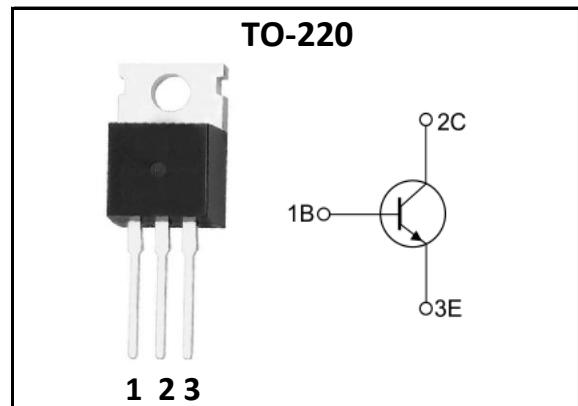


13007**Silicon NPN Transistor****Features**

- 1.High Voltage
- 2.High Speed Switching

**Maximum ratings(Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	V _{CBO}	700	V
Collector-Emitter Breakdown Voltage	V _{CEO}	400	V
Emitter-Base Breakdown Voltage	V _{EBO}	9	V
Collector Current	I _c	8	A
Collector Power Dissipation	P _c	2	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{CBO}	IC=100uA IE=0	700		V
Collector-Emitter Breakdown Voltage	V _{CEO}	IC=1mA IB=0	400		V
Emitter-Base Breakdown Voltage	V _{EBO}	IE=100uA IC=0	9		V
Collector Cutoff Current	I _{CBO}	V _{CB} =700V IE=0		1	uA
Collector Cutoff Current	I _{CEO}	V _{CE} =400V IB=0		1	uA
Emitter Cutoff Current	I _{EBO}	V _{EB} =9V IC=0		1	uA
DC Current Gain	HFE	V _{CE} =5V IC=2A	10	40	
		V _{CE} =5V IC=5A	5		
Collector-Emitter Saturation Voltage	V _{CE(sat)}	IC=2A IB=400mA		1	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	IC=2A IB=400mA		1.2	V
Storage time	T _s	IC=500mA	3	6	
Transition frequency	f _T	V _{CE} =10V IC=500mA	4		MHz