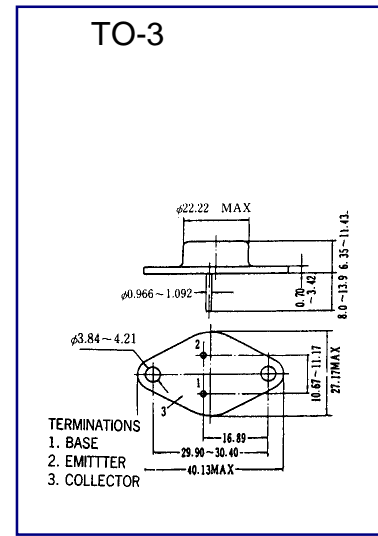




**MJ10007**

**NPN SILICON TRANSISTOR**

**SWITCHING REGULATORS PWM INVERTERS  
SOLENOID AND RELAY DRIVERS**



**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ )**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	500	V
Collector-Emitter Voltage	$V_{CE0}$	400	V
Collector Current (DC)	$I_C$	10	A
Collector Dissipation ( $T_c=25^{\circ}\text{C}$ )	$P_C$	150	W
Junction Temperature	$T_j$	200	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-50~150	$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ )**

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=500\text{V}$ , $I_E=0$			10	$\mu\text{A}$
Collector Cutoff Current	$I_{CEO}$	$V_{CB}=400\text{V}$ , $I_B=0$			10	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE}=5\text{V}$ , $I_C=5\text{A}$	30			
Collector- Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4\text{A}$ , $I_B=0.4\text{A}$			1.5	V