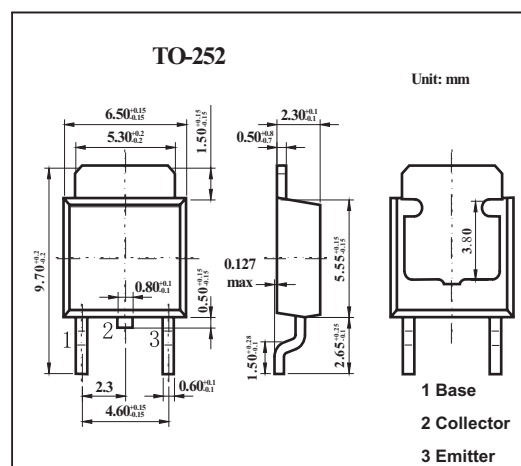


NPN Epitaxial Silicon Transistor

MJD340

■ Features

- Load Formed for Surface Mount Application
- Straight Lead

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	300	V
Collector-Emitter Voltage	V_{CE0}	300	V
Emitter-Base Voltage	V_{EB0}	3	V
Collector Current (DC)	I_C	0.5	A
Collector Current (Pulse)	I_{CP}	0.75	A
Collector Dissipation ($T_C = 25^\circ\text{C}$)	P_C	15	A
Collector Dissipation ($T_a = 25^\circ\text{C}$)		1.56	W
Junction Temperature	T_J	150	W
Storage Temperature	T_{STG}	-65 to 150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-Emitter Sustaining Voltage *	$V_{CE0(sus)}$	$I_C = 1\text{mA}$, $I_B = 0$	300			V
Collector Cut-off Current	I_{CEO}	$V_{CB} = 300\text{V}$, $I_E = 0$			0.1	mA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 3\text{V}$, $I_C = 0$			0.1	mA
DC Current Gain *	h_{FE}	$V_{CE} = 10\text{V}$, $I_C = 50\text{mA}$	30		240	

*Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$