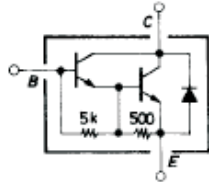


# 2SD1817

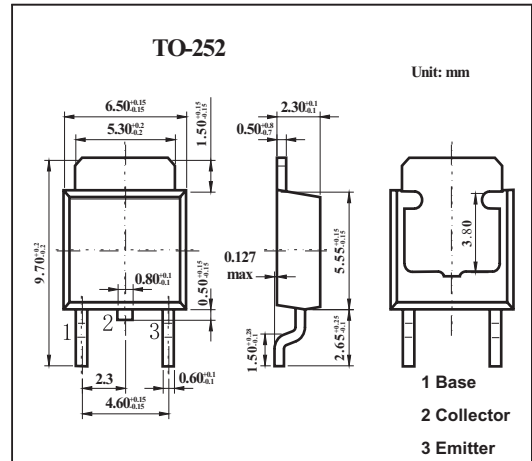
■ Features

- High DC current gain.

■ Electrical Connection



Unit (resistance : Ω)



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

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CB0}$	80	V
Collector-emitter voltage	$V_{CEO}$	60	V
Emitter-base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	3	A
Collector current (pulse)	$I_{CP}$	6	A
Collector dissipation	$P_C$	1	W
$T_a = 25^\circ\text{C}$		15	W
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 60V, I_E = 0$			10	$\mu\text{A}$
Emitter cutoff current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			2.5	$\text{mA}$
DC current Gain	$h_{FE}$	$V_{CE} = 2V, I_C = 1A$	2000			
		$V_{CE} = 2V, I_C = 2A$	1000			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 2A, I_B = 4\text{mA}$			1.5	V
Base-to-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 2A, I_B = 4\text{mA}$			2.0	V
Collector-to-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	80			V
Collector-to-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 25\text{mA}, R_{BE} = \infty$	60			V