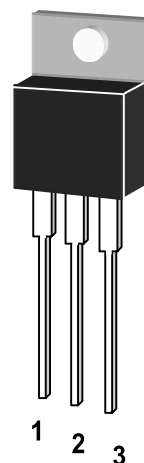


# SD13003T

NPN Silicon Epitaxial Planar Transistor for power switching and electron rectifier applications.

The transistor is subdivided into one group according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



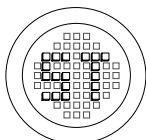
1. Base 2. Collector 3. Emitter

TO-220 Plastic Package

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

	Symbol	Rating	Unit
Collector Base Voltage	$V_{\text{CBO}}$	600	V
Collector Emitter Voltage	$V_{\text{CEO}}$	400	V
Emitter Base Voltage	$V_{\text{EBO}}$	9	V
Collector Current	$I_{\text{C}}$	1.5	A
Power Dissipation	$P_{\text{tot}}$	1.5	W
Junction Temperature	$T_{\text{j}}$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{s}}$	-55 to +150	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



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**РАДИОТЕХ**

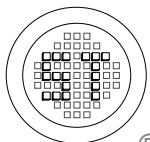
Тел.: (495) 795-0805  
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Веб: www.rct.ru

# SD13003T

## Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=10\text{V}$ , $I_C=100\text{mA}$	$h_{FE}$	10	-	70	
Collector Base Breakdown Voltage at $I_C=1\text{mA}$	$V_{(BR)CBO}$	600	-	-	V
Collector Emitter Breakdown Voltage at $I_C=10\text{mA}$	$V_{(BR)CEO}$	400	-	-	V
Emitter Base Breakdown Voltage at $I_E=1\text{mA}$	$V_{(BR)EBO}$	9	-	-	V
Collector Cutoff Current at $V_{CB}=600\text{V}$	$I_{CBO}$	-	-	100	nA
Emitter Cutoff Current at $V_{EB}=9\text{V}$	$I_{EBO}$	-	-	100	$\mu\text{A}$
Collector Emitter Saturation Voltage at $I_C=1\text{A}$ , $I_B=250\text{mA}$	$V_{CE(sat)}$	-	-	1.0	V
Base-Emitter Saturation Voltage at $I_C=1\text{A}$ , $I_B=250\text{mA}$	$V_{BE(sat)}$	-	-	1.2	V

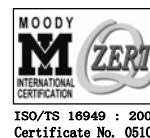
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## SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 07/12/2002