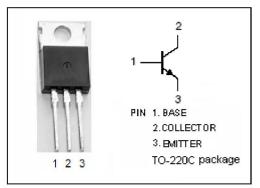
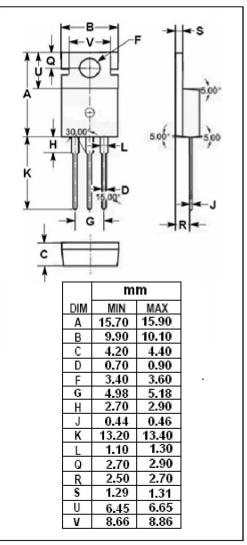


# **Silicon NPN Power Transistor**

#### DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= 800V(Min)
- High Switching Speed
- Wide SOA





#### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	850	V
$V_{CEO}$	Collector-Emitter Voltage	800	V
$V_{\text{EBO}}$	Emitter-Base Voltage	7	V
Ι <sub>C</sub>	Collector Current-Continuous	3	А
I <sub>CM</sub>	Collector Current-Peak	10	А
Ι <sub>Β</sub>	Base Current-Continuous		A
Pc	$P_C$ Collector Power Dissipation $@T_C=25^{\circ}C$		W
ТJ	T <sub>J</sub> Junction Temperature		Ĉ
T <sub>stg</sub> Storage Temperature		-55~150	°C

### **Ordering Information**

Product	Package	Packaging
2SC5027T1TL	TO-3PI	Tube





#### **ELECTRICAL CHARACTERISTICS**

### Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
BV <sub>EBO</sub>	Emitter -Base Breakdown Voltage	I <sub>E</sub> = 1mA; I <sub>C</sub> = 0	7			V
BV <sub>CEO</sub>	Collector- Emitter Breakdown Voltage	I <sub>C</sub> = 5mA; I <sub>B</sub> = 0	800			V
BV <sub>CBO</sub>	Collector- Base Breakdown Voltage	I <sub>C</sub> = 1mA; I <sub>E</sub> = 0	850			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 1.5A; I <sub>B</sub> = 0.3A			2.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 1.5A; I <sub>B</sub> = 0.3A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 800V; I <sub>E</sub> = 0			10	μ Α
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			10	μ Α
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 0.2A; V <sub>CE</sub> = 5V	10		40	
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	8			
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = 10V; f= 1MHz		60		pF
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = 0.2A; V <sub>CE</sub> = 10V		15		MHz

#### Switching Times

t <sub>on</sub>	Turn-On Time	I <sub>C</sub> =5I <sub>B1</sub> =-2.5 I <sub>B2</sub> =2A; V <sub>CC</sub> = 400V; R <sub>L</sub> = 200 Ω		0.5	μ <b>s</b>
t <sub>stg</sub>	Storage Time			3.0	μ <b>S</b>
t <sub>f</sub>	Fall Time			0.3	μ <b>S</b>

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