



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

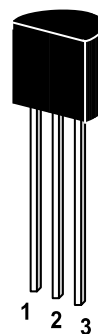
ST 2SC1008

NPN Silicon Epitaxial Planar Transistor

for medium speed switching and low frequency amplifier applications.

The transistor is subdivided into three groups, R, O, Y, and G according to its DC current gain.

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



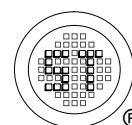
1. Emitter 2. Base 3. Collector

TO-92 Plastic Package

Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	700	mA
Collector Power Dissipation	P_{tot}	800	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	-55 to +150	$^{\circ}\text{C}$



Dated : 7/12/2002



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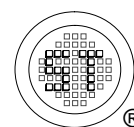
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Characteristics at $T_{amb}=25^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE}=2V, I_C=50mA$	R O Y G	h_{FE} h_{FE} h_{FE} h_{FE}	40 70 120 200	- - - -	80 140 240 400	- - - -
Collector Saturation Voltage at $I_C=500mA, I_B=50mA$	V_{CEsat}	-	0.2	0.4	V	
Base Saturation Voltage at $I_C=500mA, I_B=50mA$	V_{BEsat}	-	0.86	1.1	V	
Collector Base Breakdown Voltage at $I_C=100\mu A, I_E=0$	BV_{CBO}	60	-	-	V	
Collector Emitter Breakdown Voltage at $I_C=10mA, I_B=0$	BV_{CEO}	40	-	-	V	
Emitter Base Breakdown Voltage at $I_E=10\mu A, I_C=0$	BV_{EBO}	6	-	-	V	
Collector Cut-off Current at $V_{CB}=60V, I_E=0$	I_{CBO}	-	-	0.1	μA	
Emitter Cut-off Current at $V_{EB}=5V, I_C=0$	I_{EBO}	-	-	0.1	μA	
Gain Bandwidth Product at $V_{CE}=10V, I_C=50mA$	f_T	30	50	-	MHz	
Output Capacitance at $V_{CB}=10V, I_E=0, f=1MHz$	C_{ob}	-	8	-	pF	



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