

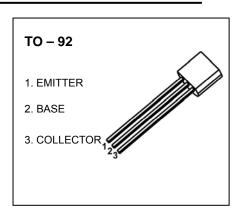
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92 Plastic-Encapsulate Transistors

2SC1008 TRANSISTOR (NPN)

FEATURES

• General Purpose Switching and Amplification



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	8	V	
Ic	Collector Current	700	mA	
Pc	Collector Power Dissipation	800	mW	
R _{0JA}	Thermal Resistance From Junction To Ambient	156	°C/W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~+150	°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =0.01mA,I _C =0	8			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =2V, I _C =50mA	40		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			0.4	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =500mA,I _B =50mA			1.1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _C =0, f=1MHz		8		pF
Transition frequency	f⊤	VcE=10V,Ic= 50mA	30			MHz

CLASSIFICATION OF h_{FE}

RANK	R	0	Υ	G
RANGE	40-80	70-140	120-240	200-400

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