

isc Silicon PNP Power Transistor

2SA2222SG

DESCRIPTION

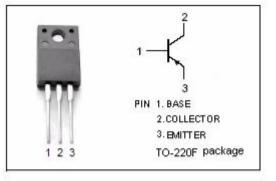
- Large current capacitance
- High-speed switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

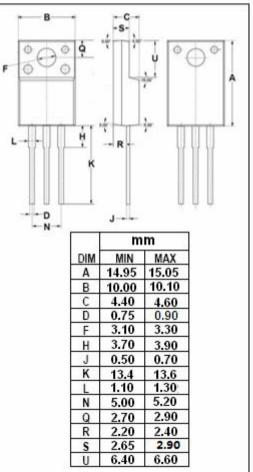
APPLICATIONS

• relay drivers, lamp drivers, motor drivers

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	-50	V	
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-6	Vo	
lc	Collector Current-Continuous	-10	A	
Ісм	Collector Current-Peak	-13	A	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	25	W	
	Collector Power Dissipation @Ta=25℃	2		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -300mA			-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = -6A; I _B = -300mA			-1.2	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -100uA; I _C = 0	-6			V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-10	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -0.27A; V _{CE} = -2V	150		450	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		115		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		230		MHz

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