

isc Silicon PNP Power Transistor

DESCRIPTION

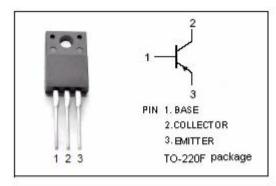
- · Large current capacitance
- · High-speed switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

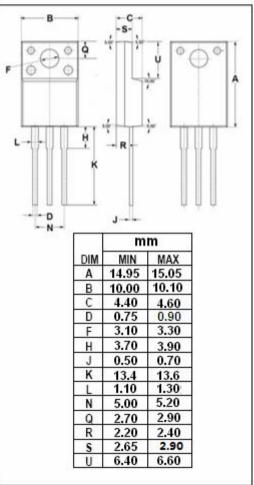
APPLICATIONS

• relay drivers, lamp drivers, motor drivers

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-50	V	
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
Ic	Collector Current-Continuous	-20	Α	
Ісм	Collector Current-Peak	-25	Α	
Pc	Collector Power Dissipation @ T _C =25°C	30		
	Collector Power Dissipation @T _a =25℃	2	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	°C	







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2SA2210

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7A; I _B = -350mA			-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = -7A; I _B = -350mA			-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 А
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-10	μА
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -2V	200		560	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		215		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		140		MHz

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