

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 50V(Min)
- High DC Current Gain
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

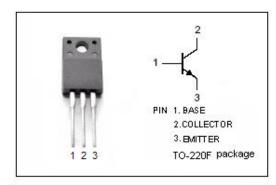


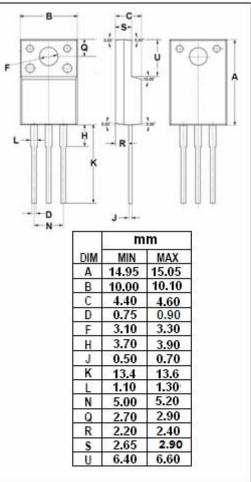
APPLICATIONS

 DC-DC converter, Emergency lighting Inverter and general purpose



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	15	V
Ic	Collector Current-Continuous	10	А
I _B	Base Current-Continuous	3	А
Pc	Collector Power Dissipation @T _C =25℃ 35		W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C







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2SC4024

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.1A			0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 15V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	300		1600	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		150		pF
f _T	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		24		MHz

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