

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 400V(Min)
- · High Switching Speed
- Wide Area of Safe Operation
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

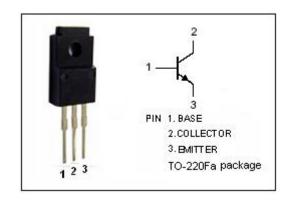


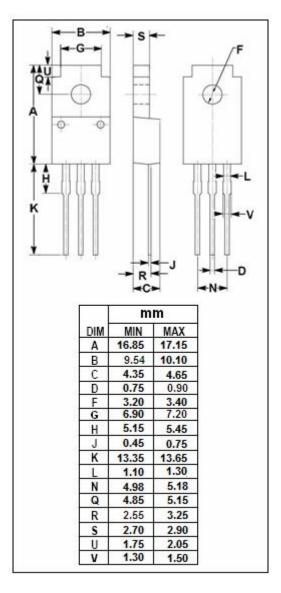
APPLICATIONS

· Designed for switching regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	5	А
Ісм	Collector Current-Peak 7		А
Pc	Collector Power Dissipation @T _a =25℃	1.5	w
	Collector Power Dissipation @T _C =25℃	30	VV
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SC4129

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	400			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 50 μ A; I _C = 0	7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE}	DC Current Gain	Ic= 3A; Vc== 5V	16		50	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		80		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 10V		15		MHz

NOTICE:

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