

isc Silicon NPN Power Transistor

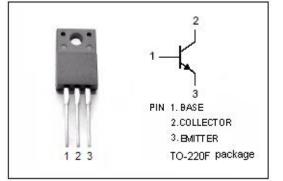
2SC4073

DESCRIPTION

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

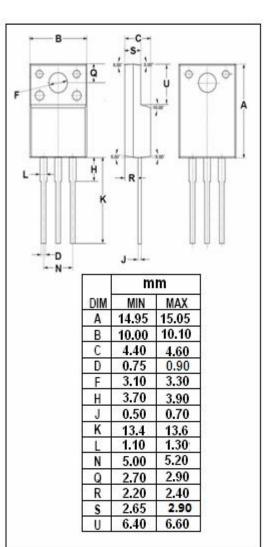
APPLICATIONS

• Designed for switching regulator and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	v
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	10	V
lc	Collector Current-Continuous	5	A
Ісм	Collector Current-Peak	10	А
I _B	Base Current-Continuous	2	A
Pc	Collector Power Dissipation $@T_c=25^{\circ}C$	30	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C





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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 25mA; I _B = 0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			100	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 10V; I _C = 0			100	μA
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 4V	10		30	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		30		pF
fT	Current-Gain—Bandwidth Product	I _E = -0.3A; V _{CE} = 12V		10		MHz

Switching Times

ton	Turn-On Time			1.0	μ S
t _{stg}	Storage Time	I _C = 2A; I _{B1} = 0.2A; I _{B2} = -0.4A; V _{CC} = 200V; R _L = 100 Ω		3.0	μs
t _f	Fall Time			0.5	μ S

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