

isc Silicon NPN Power Transistor

DESCRIPTION

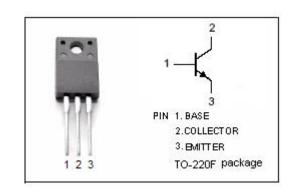
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 600V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

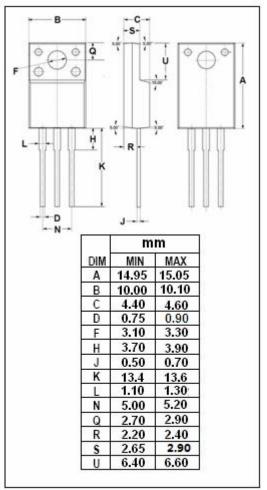
APPLICATIONS

 Designed for switching regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	600	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	3	Α
Ісм	Collector Current-Peak	6	А
lΒ	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @T _C =25°C	35	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SC5249

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	600			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 600V ; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 4V	20		40	



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