

isc Silicon NPN Power Transistor

2SC1848

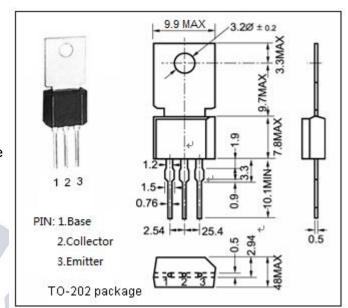
DESCRIPTION

- · Silicon NPN epitaxial planar
- · High voltage
- Complement to Type 2SA887
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

Designed for medium power amplifier



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	70	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	2	А
Pc	Total Power Dissipation @ Ta=25°C	1.2	w
	Total Power Dissipation @ T _C =25℃	10	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	30			
h _{FE-2}	DC Current Gain	I _C = 1.0A; V _{CE} = 5V	50		220	
f _T	Current-Gain—Bandwidth Product	I _C = 500mA; V _{CE} = 5V		150		MHz

♦ h_{FE-2} Classifications

Р	Q	R
50-100	80-160	120-220

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