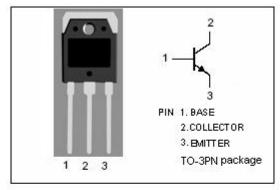


isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 140V(Min)
- · Good Linearity of hFE
- · High Power Dissipation
- Complement to Type 2SA1106
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

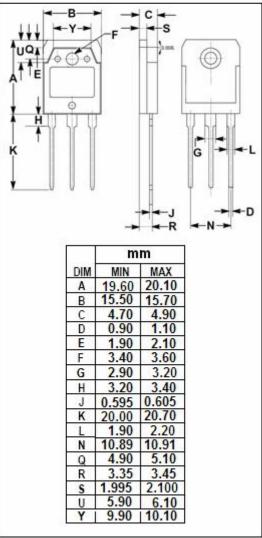


APPLICATIONS

• Designed for audio and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	10	А
I _B	Base Current-Continuous	4	А
Pc	Collector Power Dissipation @ T _C =25°C	100	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





isc Silicon NPN Power Transistor

2SC2581

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	140			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 140V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 4V	30			
f _T	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		250		pF

Notice:

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