

isc Silicon NPN Power Transistor

2SC2275

DESCRIPTION

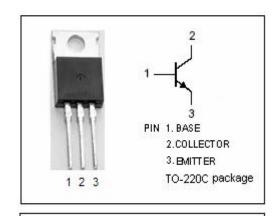
- · Collector-Emitter Breakdown Voltage
- : V_{(BR)CEO}= 120V(Min)
- · Good Linearity of hFE
- Complement to Type 2SA985
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

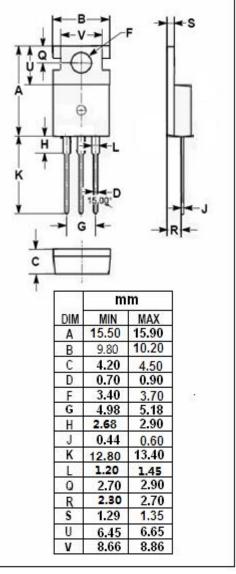
APPLICATIONS

- · Audio frequency power amplifier applications
- · High frequency power amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	1.5	Α	
Ісм	Collector Current-Peak	3.0	Α	
l _Β	Base Current-Continuous	0.3	Α	
P _C	Total Power Dissipation @ T _a =25℃	1.5	W	
	Total Power Dissipation @ T _C =25°C	25		
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 120V ; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μА
h _{FE-1}	DC Current Gain	I _C = 5mA ; V _{CE} = 5V	35			
h _{FE-2}	DC Current Gain	I _C = 0.3A ; V _{CE} = 5V	60		320	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		19		pF
f _T	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 5V		200		MHz

h_{FE} Classifications

R	Q	Р
60-120	100-200	160-320

Notice:

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