

ISC Silicon NPN Power Transistors

2SD382

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V(Min.)
- · Complement to Type 2SB537
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

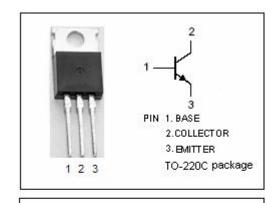
APPLICATIONS

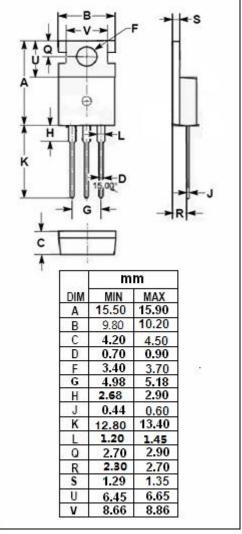


- · Audio frequency power amplifier, low speed switching.
- Suitable for driver of 60~100 watts audio amplifier.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	130	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	
Ів	Base Current	0.3	Α	
Pc	Collector Power Dissipation@T _C =25℃	20	W	
	Collector Power Dissipation@Ta=25°C	1.5		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 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
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μ А
h _{FE-1}	DC Current Gain	I _C = 5mA ; V _{CE} = 5V	25			
h _{FE-2}	DC Current Gain	Ic= 0.3A; V _{CE} = 5V	40		250	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 0.1MHz		25		pF
f _⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		45		MHz

♦ h_{FE-2} Classifications

N	М		К
40-80	60-120	80-160	120-250

NOTICE:

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