

isc Silicon NPN Power Transistor

2SD716

DESCRIPTION

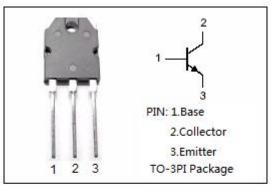
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V (Min)
- Low Collector-Emitter Saturation Voltage-: V_{CE(sat)}= 2.0V (Max)@I_C= 4A
- Complement to Type 2SB686
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

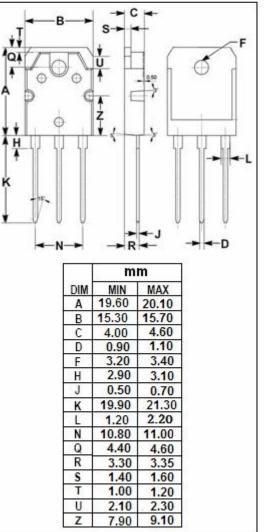
APPLICATIONS

- · Power amplifier applications
- Recommended for 30~35W high-fidelity audio frequency amplifier output stage.

ABCOLO	ABSOLUTE MAXIMUM RATINGS(Ta=25C)					
SYMBOL	PARAMETER VALUE		UNIT			
Vсво	Collector-Base Voltage	100	V			
V _{CEO}	Collector-Emitter Voltage 100					
V _{EBO}	Emitter-Base Voltage 5		V			
lc	Collector Current-Continuous 6		А			
Ι _Ε	Emitter Current-Continuous	r Current-Continuous 6				
Pc	Collector Power Dissipation @ T _c =25°C	60	W			
TJ	Junction Temperature	150	ĉ			
T _{stg}	Storage Temperature Range	-55~150	Ĉ			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A ; V _{CE} = 5V			1.5	V
I _{СВО}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			10	μA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			10	μA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	55		160	

h_{FE} Classifications

R	0
55-110	80-160

NOTICE:

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