

isc Silicon NPN Power Transistor

KTD718

DESCRIPTION

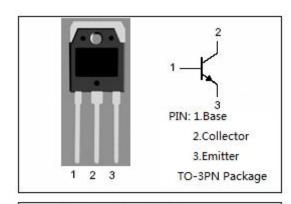
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V(Min)
- · Good Linearity of hFE
- Complement to Type KTB688
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

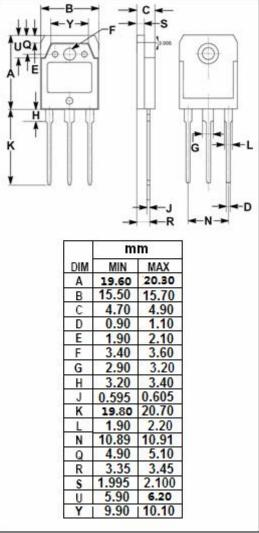


- · Audio frequency power amplifier applications
- Recommend for 45-50W audio frequency amplifier output stage applications



SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	10	А	
I _B	Base Current-Continuous	1	А	
Pc	Collector Power Dissipation @ T _C =25℃	80	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	120			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6.0A; I _B = 0.6A			2.5	V	
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A ; V _{CE} = 5V			1.5	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V ; I _E = 0			10	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА	
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160		
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V;f _{test} = 1.0MHz		280		pF	
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		10		MHz	

h_{FE} Classifications

R	0		
55-110	80-160		

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