

isc Silicon NPN Power Transistor

DESCRIPTION

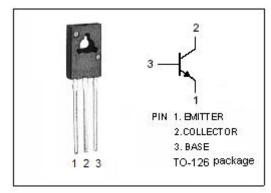
- High Collector Current -I_C= 3A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 45V(Min)
- Complement to Type KSB744A
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

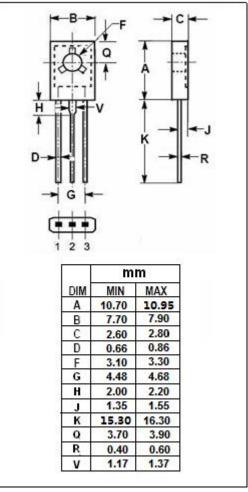


· Designed for use in audio frequency amplifier.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	70	V	
Vceo	Collector-Emitter Voltage	45	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	3	А	
I _{CP}	Collector Current-Pulse	5	А	
I _B	Base Current-Continuous	0.6	А	
P _C	Collector Power Dissipation @ T _C =25℃	10	W	
	Collector Power Dissipation @ T _a =25°C	1		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	







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KSD794A

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 45V; I _E = 0			1.0	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μ Α
h _{FE-1}	DC Current Gain	I _C = 20mA; V _{CE} = 5V	30			
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	60		320	
fτ	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		60		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		40		pF

♦ h_{FE-2} Classifications

R	0	Y
60-120	100-200	160-320

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