

ISC Silicon NPN Power Transistor

DESCRIPTION

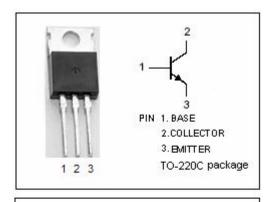
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 80V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 1.0V(Max) @I_C= 3.0A
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

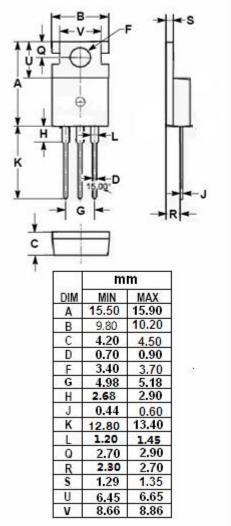
APPLICATIONS

Designed for use in audio frequency power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V_{EBO}	Emitter-Base Voltage 7		V	
Ic	Collector Current-Continuous	r Current-Continuous 4		
I _{CM}	Collector Current-Peak	6	Α	
I _B	Base Current-Continuous	0.5	А	
Pc	Collector Power Dissipation @ T _c =25℃ 30		W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SD928

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3.0A; I _B = 0.3A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A ; V _{CE} = 5V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V ; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V ; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	60		300	
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V;f _{test} = 1.0MHz	3.0			MHz

NOTICE:

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