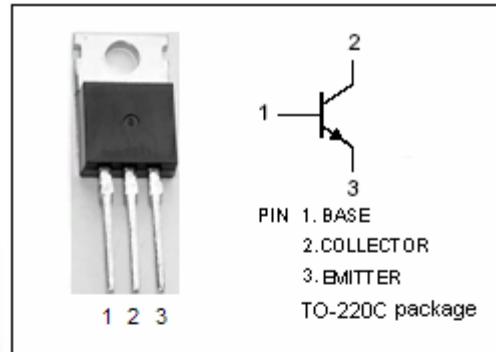


isc Silicon NPN Power Transistor

2SD928

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

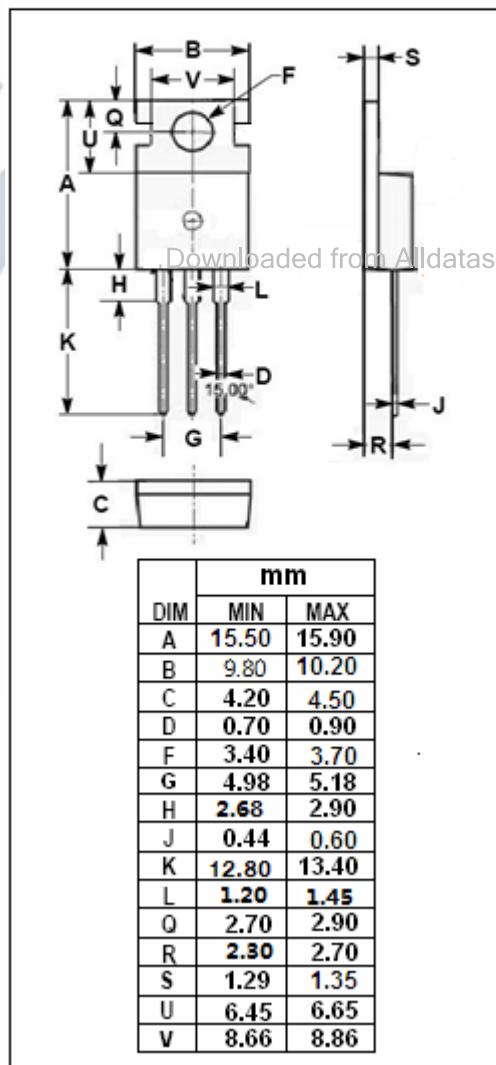


APPLICATIONS

- Designed for use in audio frequency power amplifier applications

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

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
I_C	Collector Current-Continuous	4	A
I_{CM}	Collector Current-Peak	6	A
I_B	Base Current-Continuous	0.5	A
P_c	Collector Power Dissipation @ $T_c=25^\circ C$	30	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



isc Silicon NPN Power Transistor**2SD928****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = 10\text{mA} ; I_B = 0$	80			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = 1\text{mA} ; I_C = 0$	7			V
$V_{CE(\text{sat})}$	Collector-Emitter Saturation Voltage	$I_C = 3.0\text{A} ; I_B = 0.3\text{A}$			1.0	V
$V_{BE(\text{on})}$	Base-Emitter On Voltage	$I_C = 0.5\text{A} ; V_{CE} = 5\text{V}$			1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = 80\text{V} ; I_E = 0$			100	$\mu\text{ A}$
I_{EBO}	Emitter Cutoff Current	$V_{EB} = 8\text{V} ; I_C = 0$			100	$\mu\text{ A}$
h_{FE}	DC Current Gain	$I_C = 0.5\text{A} ; V_{CE} = 5\text{V}$	60		300	
f_T	Current-Gain—Bandwidth Product	$I_C = 0.5\text{A} ; V_{CE} = 5\text{V} ; f_{\text{test}} = 1.0\text{MHz}$	3.0			MHz

Downloaded from Alldatasheet.com