

isc Silicon NPN Power Transistor
2SC2528
DESCRIPTION

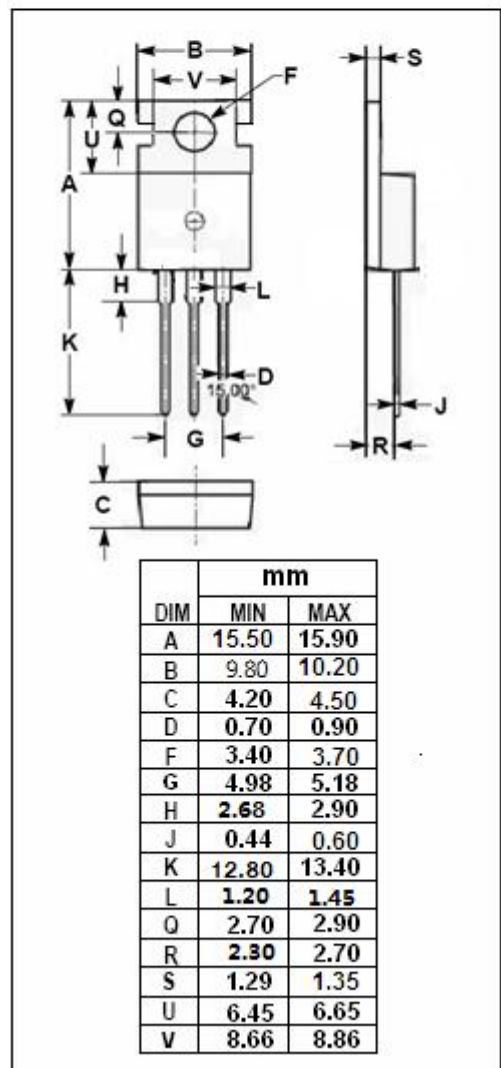
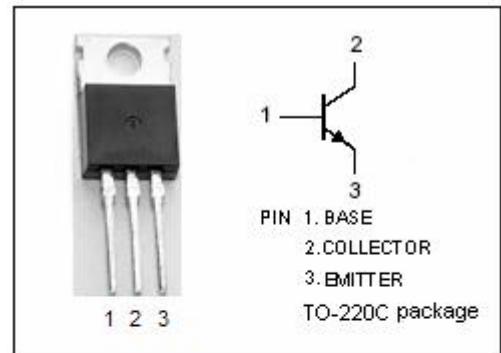
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 120V(\text{Min})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(\text{sat})} = 1.0V(\text{Max}) @ I_C = 0.7A$
- Complement to Type 2SA1078
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High frequency power amplifier,
Audio power amplifier
Drivers

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	120	V
V_{CEO}	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	2.0	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	25	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.7A; I _B = 0.07A			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.7A ; V _{CE} = 5V			1.7	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V ; I _E = 0			1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V ; I _C = 0			1	μ A
h _{FE-1}	DC Current Gain	I _C = 0.3A ; V _{CE} = 5V	60		350	
h _{FE-2}	DC Current Gain	I _C = 0.7A ; V _{CE} = 5V	50			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f _{test} = 10MHz		60		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 20V; f _{test} = 1.0MHz		60		pF

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