

INCHANGE Semiconductor

isc Product Specification

isc Silicon PNP Power Transistors

2SA1535/A

DESCRIPTION

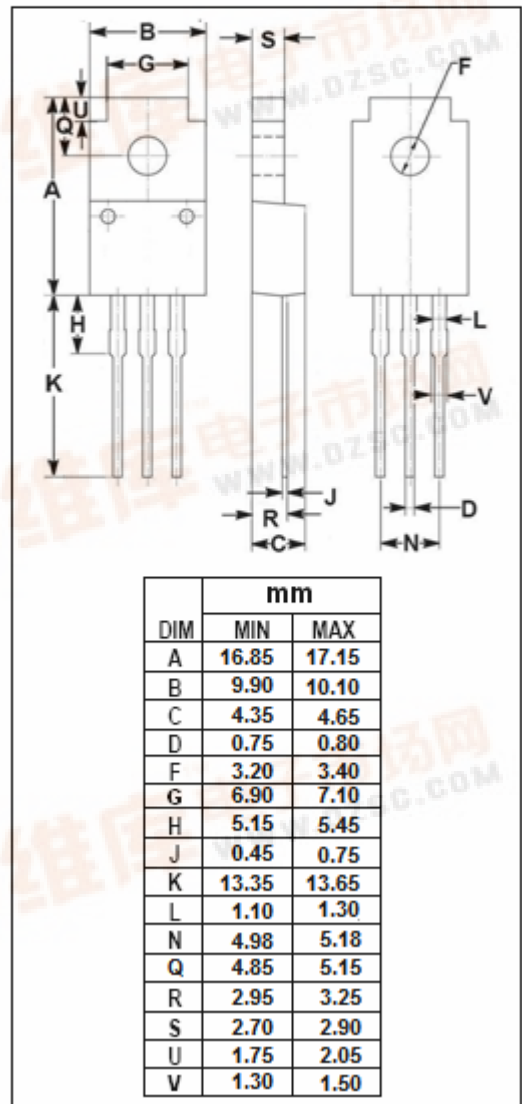
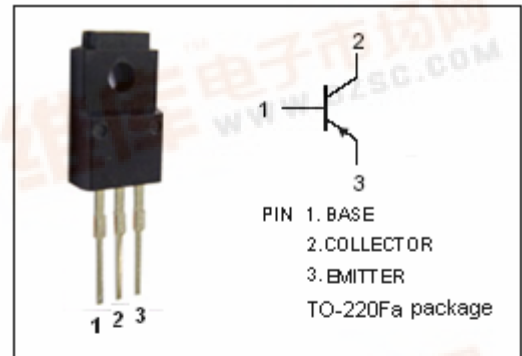
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -150V(\text{Min})$ -2SA1535
= $-180V(\text{Min})$ -2SA1535A
- Good Linearity of h_{FE}
- Complement to Type 2SC3944/A

APPLICATIONS

- Designed for low-frequency driver and high power amplification, is optimum for the driver-stage of a 60W to 100 W output amplifier.

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

SYMBOL	PARAMETER		VALUE	UNIT
V_{CBO}	Collector-Base Voltage	2SA1535	-150	V
		2SA1535A	-180	
V_{CEO}	Collector-Emitter Voltage	2SA1535	-150	V
		2SA1535A	-180	
V_{EBO}	Emitter-Base Voltage		-5	V
I_C	Collector Current-Continuous		-1	A
I_C	Collector Current-Peak		-1.5	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$		15	W
	Collector Power Dissipation @ $T_a=25^\circ\text{C}$		2	
T_J	Junction Temperature		150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range		-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	2SA1535	$I_C = -50\text{mA}$; $I_B = 0$	-150			V
		2SA1535A		-180			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage		$I_E = -10\mu\text{A}$; $I_C = 0$	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		$I_C = -0.5\text{A}$; $I_B = -50\text{mA}$			-2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		$I_C = -0.5\text{A}$; $I_B = -50\text{mA}$			-2.0	V
I_{CBO}	Collector Cutoff Current		$V_{CB} = -150\text{V}$; $I_E = 0$			-10	μA
h_{FE-1}	DC Current Gain		$I_C = -150\text{mA}$; $V_{CE} = -10\text{V}$	90		330	
h_{FE-2}	DC Current Gain		$I_C = -0.5\text{A}$; $V_{CE} = -5\text{V}$	50			
C_{OB}	Output Capacitance		$I_E = 0$; $V_{CB} = -10\text{V}$; $f_{\text{test}} = 1\text{MHz}$		30		pF
f_T	Current-Gain—Bandwidth Product		$I_C = -50\text{mA}$; $V_{CE} = -10\text{V}$; $f_{\text{test}} = 10\text{MHz}$		200		MHz

◆ h_{FE-1} Classifications

Q	R	S
90-155	130-220	185-330