

isc Silicon PNP Power Transistors

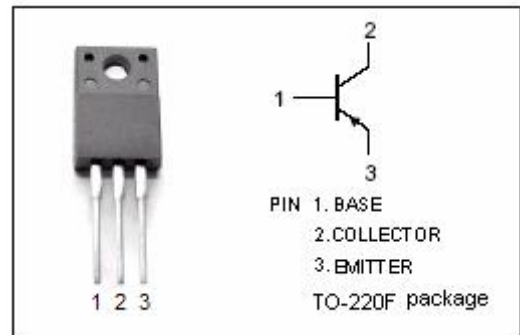
2SA1535/A

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

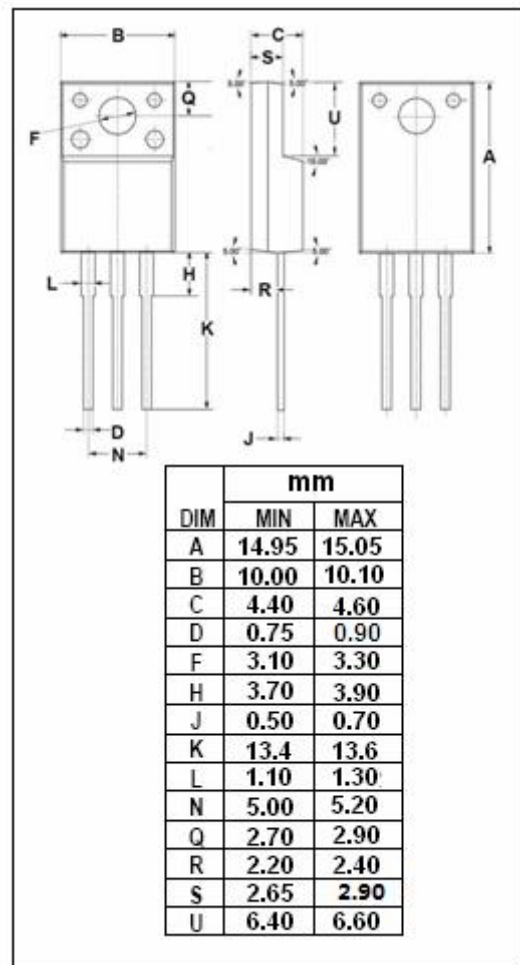
APPLICATIONS

- 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	$^\circ\text{C}$	



**isc Silicon PNP Power Transistors****2SA1535/A****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	$\mu\text{A}$
$h_{FE-1}$	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		$I_E = 0; V_{CB} = -10\text{V}; f_{test} = 1\text{MHz}$		30		pF
$f_T$	Current-Gain—Bandwidth Product		$I_C = -50\text{mA}; V_{CE} = -10\text{V}; f_{test} = 10\text{MHz}$		200		MHz

◆  **$h_{FE-1}$  Classifications**

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