

isc Silicon PNP Darlington Power Transistor
2SB950A
DESCRIPTION

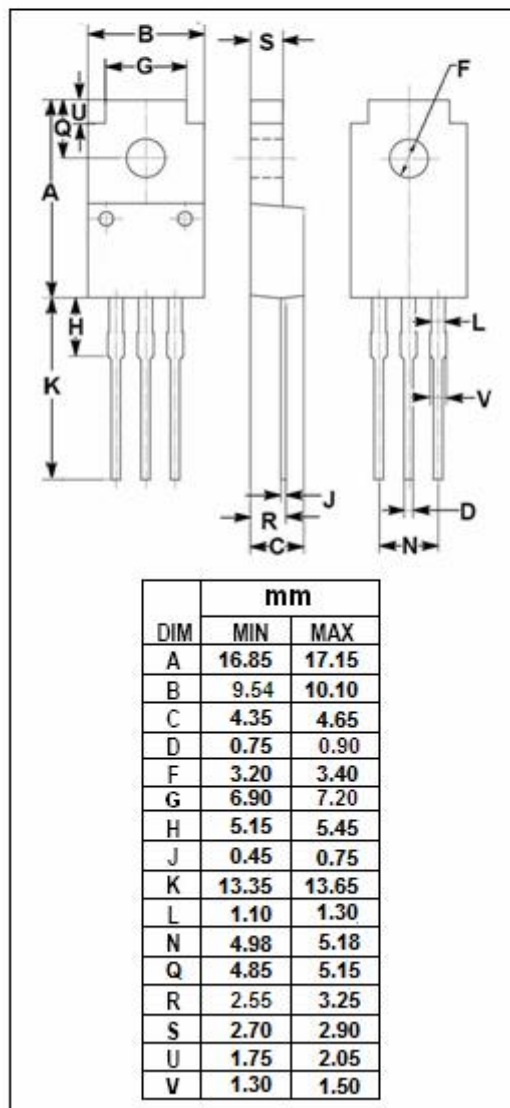
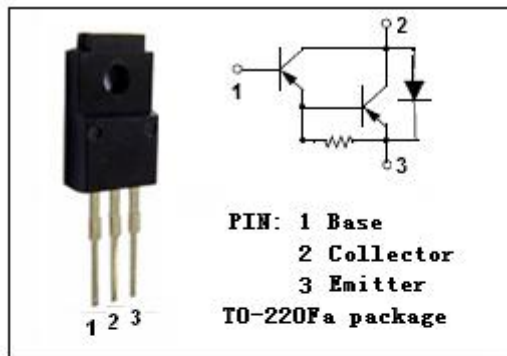
- High DC Current Gain-
: $h_{FE} = 2000(\text{Min.}) @ I_C = -3A$
- High Speed Switching
- Complement to Type 2SD1276A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifier and switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-4	A
I_{CM}	Collector Current-Peak	-8	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	40	
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°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ; I _B = 0	-80			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -12mA			-2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -20mA			-4.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A ; V _{CE} = -3V			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V ; I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -40V ; I _B = 0			-0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V ; I _C = 0			-2.0	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -3V	1000			
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -3V	2000		10000	

◆ h_{FE-2} Classifications

Q	P
2000-5000	4000-10000

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