

isc Silicon PNP Power Transistor
2SB1548
DESCRIPTION

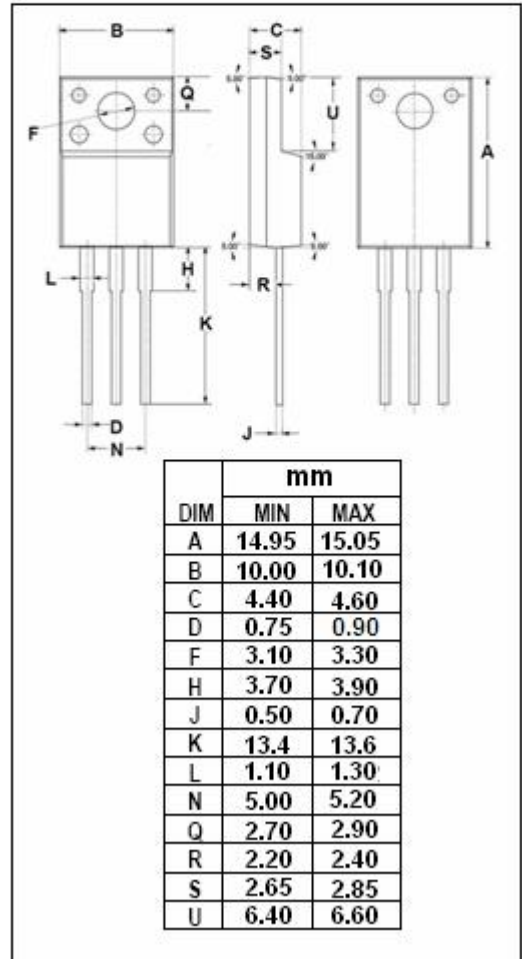
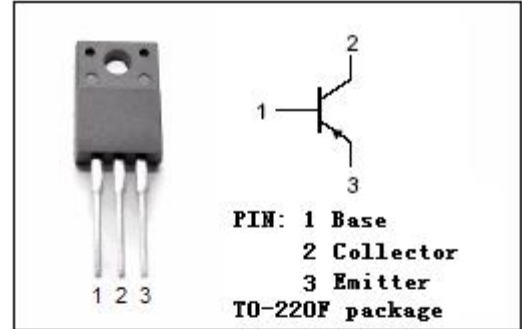
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V(\text{Min})$
- Collector Power Dissipation-
: $P_C = 25 W @ T_C = 25^\circ C$
- Low Collector Saturation Voltage
- Complement to Type 2SD2374
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-5	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ C$	2	W
	Collector Power Dissipation @ $T_C = 25^\circ C$	25	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.375A			-1.2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A ; V _{CE} = -4V			-1.8	V
I _{CES}	Collector Cutoff Current	V _{CE} = -60V ; V _{BE} = 0			-200	μ A
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V ; I _B = 0			-300	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	mA
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -4V	70		250	
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -4V	10			
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V; f _{test} = 10MHz		30		MHz

Switching Times

t _{on}	Turn-on Time			0.5		μ s
t _{stg}	Storage Time	I _C = -1A, I _{B1} = -I _{B2} = -0.1A,		1.2		μ s
t _f	Fall Time			0.3		μ s

◆ h_{FE-1} Classifications

Q	P
70-150	120-250

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