

isc Silicon NPN Power Transistor

2SD1480

DESCRIPTION

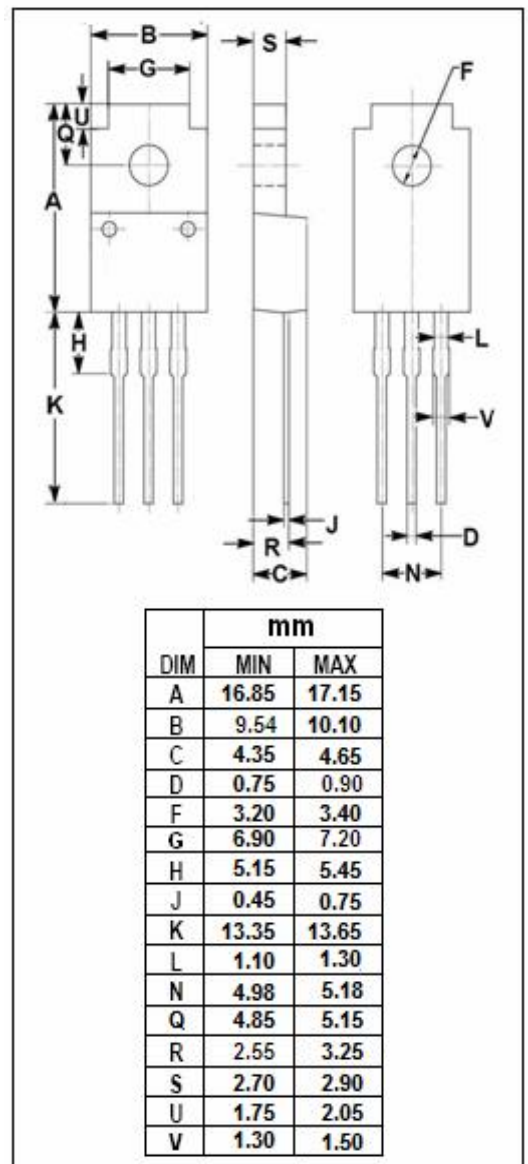
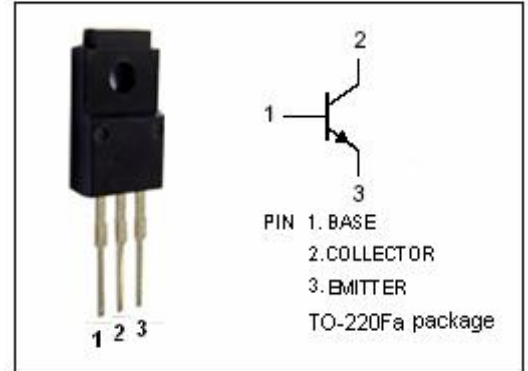
- Low Collector Saturation Voltage
: $V_{CE(sat)} = 2.0V(Max) @ I_C = 2A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 60V (Min)$
- Good Linearity of h_{FE}
- Complement to Type 2SB1052
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for power amplifier applications.

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	6	V
I_C	Collector Current-Continuous	2	A
I_{CM}	Collector Current-Peak	4	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ C$	25	W
	Collector Power Dissipation @ $T_a = 25^\circ C$	2	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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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 = 10mA; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 4V			1.2	V
I _{CES}	Collector Cutoff Current	V _{CE} = 60V; V _{BE} = 0			200	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 4V	35			
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 4V	70		250	

Switching times

t _{on}	Turn-on Time	I _C = 1A; I _{B1} = I _{B2} = 0.1A		0.2		μs
t _{stg}	Storage Time			3.5		μs
t _f	Fall Time			0.7		μs

◆ h_{FE-1} classifications

Q	P
70-150	120-250

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