

isc Silicon NPN Power Transistor

2SD1485

DESCRIPTION

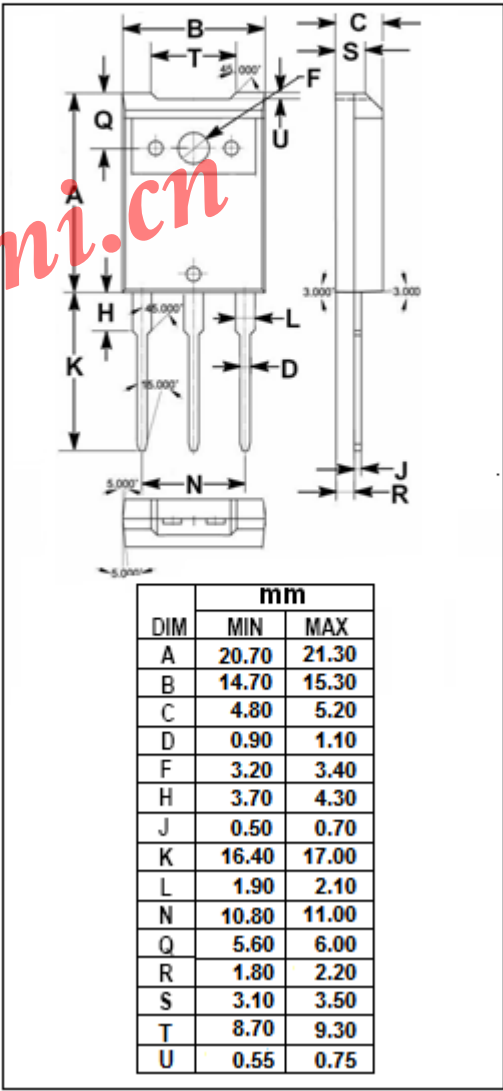
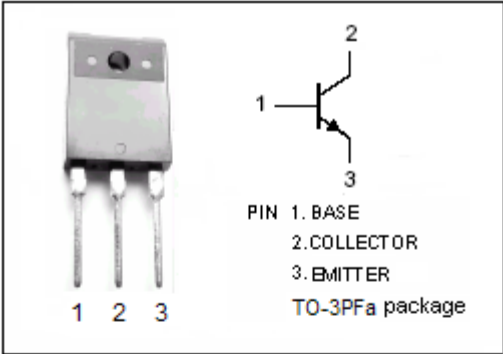
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 2.0V(Max) @ I_C = 3A$
- Wide Area of Safe Operation
- Complement to Type 2SB1054

APPLICATIONS

- Designed for high power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	5	A
I_{CM}	Collector Current-Peak	8	A
P_C	Collector Power Dissipation @ $T_a=25^{\circ}C$	3	W
	Collector Power Dissipation @ $T_c=25^{\circ}C$	60	
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 3A; I_B = 0.3A$			2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = 3A; V_{CE} = 5V$			1.8	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = 100V; I_E = 0$			50	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = 3V; I_C = 0$			50	μA
h_{FE-1}	DC Current Gain	$I_C = 20mA; V_{CE} = 5V$	20			
h_{FE-2}	DC Current Gain	$I_C = 1A; V_{CE} = 5V$	40		200	
h_{FE-3}	DC Current Gain	$I_C = 3A; V_{CE} = 5V$	20			
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = 10V; f = 1.0MHz$		170		pF
f_T	Current-Gain—Bandwidth Product	$I_C = 0.5A; V_{CE} = 5V$		20		MHz

◆ h_{FE-2} Classifications

R	Q	P
40-80	60-120	100-200