

isc Silicon NPN Power Transistor

DESCRIPTION

- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max)@I_C= 7A
- · Wide Area of Safe Operation
- Complement to Type 2SB1057
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

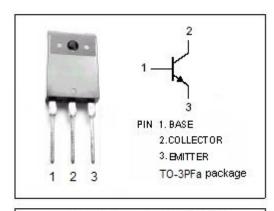
APPLICATIONS

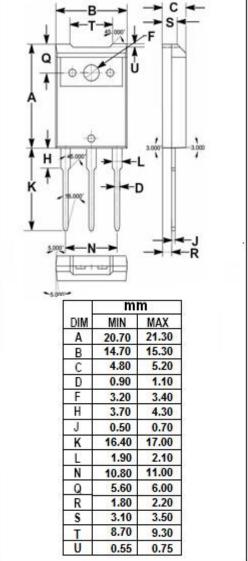
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• Designed for high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	150	V	
$V_{\sf CEO}$	Collector-Emitter Voltage	150	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous 9		А	
I _{CM}	Collector Current-Peak	15	А	
P _C	Collector Power Dissipation @ T _a =25℃	3	W	
	Collector Power Dissipation @ T _C =25°C	100		
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	stg Storage Temperature Range -55~150		°C	







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2SD1488

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 0.7A			2.0	٧
V _{BE(on)}	Base-Emitter On Voltage	I _C = 7A; V _{CE} = 5V			1.8	٧
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			50	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			50	μА
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 = 7A; V _{CE} = 5V	20			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		450		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		20		MHz

♦ h_{FE-2} Classifications

R	Q	Р
40-80	60-120	100-200

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