

isc Silicon NPN Power Transistor

DESCRIPTION

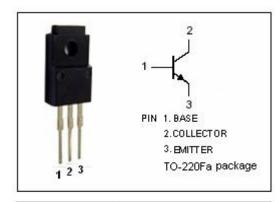
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V (Min)
- Wide Area of Safe Operation
- Complement to Type 2SB1063
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

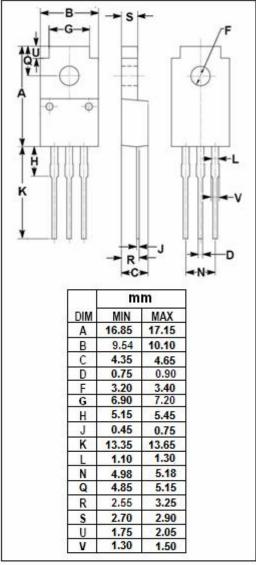


Designed for high power amplifications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	100		
Vceo	Collector-Emitter Voltage	ollector-Emitter Voltage 100		
V _{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous	А		
I _{CM}	Collector Current-Peak	Current-Peak 8		
D	Collector Power Dissipation @ T _C =25℃	40	W	
Pc	Collector Power Dissipation @ T _a =25℃	2		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SD1499

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	100			V
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	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	60		200	
h _{FE-3}	DC Current Gain	I _C = 3A ; V _{CE} = 5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V; f _{test} = 1.0MHz		20		MHz
Сов	Output Capacitance	I _E =0 ; V _{CB} = 10V;f _{test} = 1.0MHz		90		pF

♦ h_{FE-2} classifications

Q	Р
60-120	100-200

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