

isc Silicon NPN Power Transistor

2SD1535

DESCRIPTION

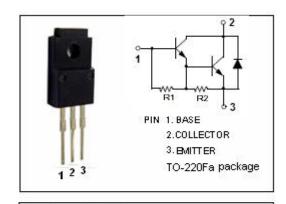
- · Collector-Base Breakdown Voltage-
 - : $V_{(BR)CBO} = 500V(Min.)$
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

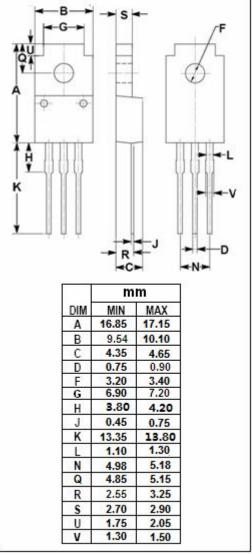
APPLICATIONS

• Designed for high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	500	V	
V _{CEO}	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base Voltage	12	V	
Ic	Collector Current	7	Α	
I _{CM}	Collector Current-peak	14	Α	
I _B	Base Current	0.5	А	
P _C	Collector Power Dissipation @T _a =25°C	2	W	
	Collector Power Dissipation @T _C =25 °C	50		
Tj	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

1c-25 C unless otherwise specified								
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	400			٧		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 70mA			2.0	٧		
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 70mA			2.5	٧		
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			0.1	mA		
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B = 0			0.1	mA		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 12V; I _C = 0			100	mA		
h _{FE-1}	DC Current Gain	I _C = 2A; V _{CE} = 2V	500					
h _{FE-2}	DC Current Gain	I _C = 6A; V _{CE} = 2V	200					
Switching Times								
t _{on}	Turn-on Time			1.5		μ \$		
t _{stg}	Storage Time	I _C = 7A; I _{B1} = I _{B2} = 70mA, V _{CC} = 300V		5.0		μ \$		
t _f	Fall Time			6.5		μ s		

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