

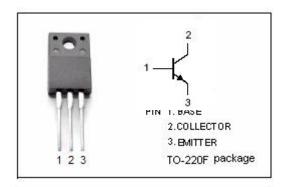
isc Silicon NPN Power Transistor

DESCRIPTION

- Low Collector Saturation Voltage-
- : V_{CE(sat)}= 1.0 (Max)@ I_C= 2A
- · Wide Area of Safe Operation
- Complement to Type 2SB1566
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

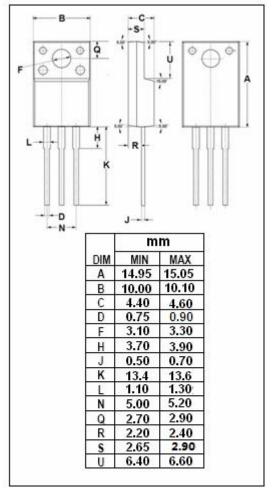
APPLICATIONS

Designed for low frequency power amplifier and driver applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	3	А	
I _{CM}	Collector Current-Peak	4.5	А	
P _C	Collector Power Dissipation @ T _a =25°C	2	W	
	Collector Power Dissipation @ T _C =25℃	25		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Power Transistor

2SD2395

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	50			V
V _{(BR CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	60			V
V _{(BR EBO}	Emitter-Base Breakdown Voltage	I _E = 50 μ A; I _C = 0	5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.5	٧
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1	μА
h _{FE}	DC Current Gain	Ic= 0.5A; VcE= 5V	100		320	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		100		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		35		pF

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