

ISC Silicon NPN Power Transistor

2SD2396

DESCRIPTION

- · Low Collector Saturation Voltage
- · High DC current gain
- Large collector power dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

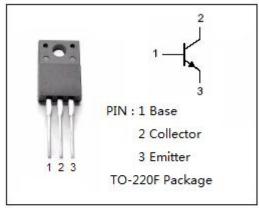


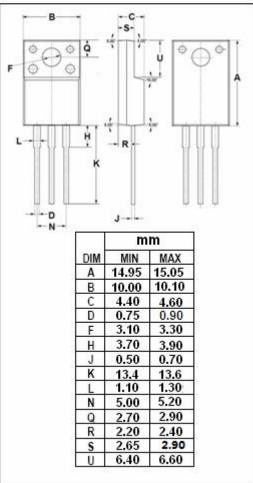
APPLICATIONS

· Designed for low frequency power amplifier



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	V	
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous 3		А
Ісм	Collector Current-Pulse	6	А
Pc	Collector Power Dissipation @ Tc=25°C	30	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	T _{stg} Storage Temperature Range		°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	60			V
V _{CE(sat)} *	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.05A			0.8	V
V _{BE(sat)*}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.05A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1	μА
h _{FE*}	DC Current Gain	I _C = 0.5A; V _{CE} = 4V	400		2K	
f _T	Current-Gain—Bandwidth Product	I _E = 0.2A ; V _{CE} = 5V		40		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} = 1.0MHz		55		pF

^{*:}Single pulse test

♦ h_{FE} Classification

Class	Н	J	К
h _{FE}	400-800	600-1200	1K-2K

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