

isc Silicon NPN Power Transistor

2SD793

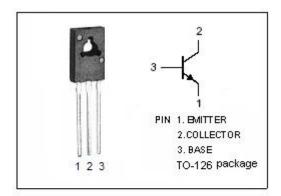
DESCRIPTION

- · Collector-Emitter BreakdownVoltage-
 - : V_{(BR)CEO}= 30V(Min.)
- · Low Collector to Emitter Saturation Voltage
 - : V_{CE(sat)}= 2.0V(Max.)@I_C= 1.5A
- Excellent h_{FE} linearity
- Complement to Type 2SB743
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



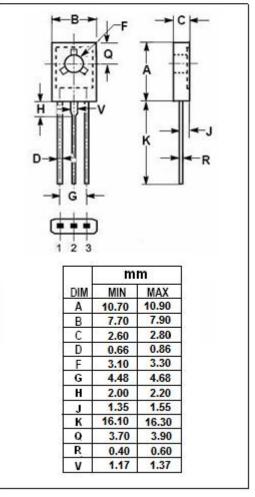
APPLICATIONS

• Designed for audio frequency power amplifier and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	40	V	
Vceo	Collector-Emitter Voltage	30	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	3	Α	
Іср	Collector Current-Pulse	5	Α	
Pc	Collector Power Dissipation @ Tc=25℃	10	W	
	Collector Power Dissipation @ T _a =25℃	1		
Тл	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			2.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.15A			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μ А
h _{FE-1}	DC Current Gain	I _C = 20mA; V _{CE} = 5V	30			
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	60		320	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		60		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		40		pF

h_{FE-2} Classifications

R	Q	Р
60-120	100-200	160-320

NOTICE:

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