

isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 40V(Min)
- · Low Collector-Emitter Saturation Voltage-
 - : V_{CE(sat)}= 0.7V(Max) @I_C= 2.0A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

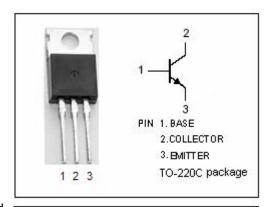
APPLICATIONS

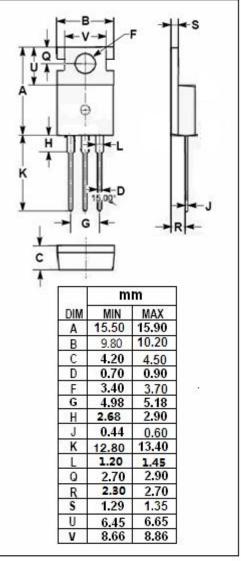


 Designed for audio frequency power amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	50	V	
Vceo	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	3.0	Α	
Ісм	Collector Current-Peak	6.0	Α	
I _B	Base Current-Continuous	0.6	Α	
Pc	Collector Power Dissipation @ Ta=25℃	1.5	W	
	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	20		
TJ	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SD795

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A		0.3	0.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A; V _{CE} = 1V		0.75	0.9	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 1V	60	160	400	
h _{FE-2}	DC Current Gain	I _C = 2.5A; V _{CE} = 1V	30			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		40		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		95		MHz

h_{FE-1} Classifications

R	Q	Р	E
60-120	100-200	160-320	200-400

NOTICE:

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