

isc Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 40V (Min)
- · Good Linearity of hFE
- Complement to Type 2SA1217
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

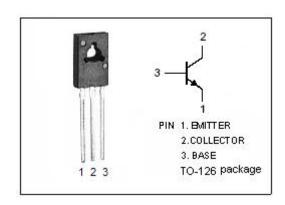
APPLICATIONS

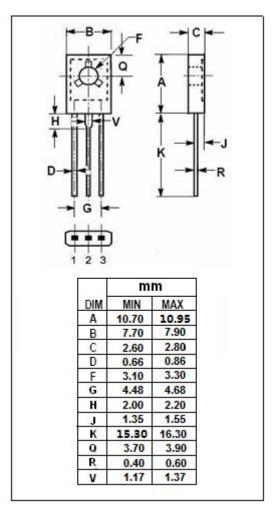


- Designed for audio frequency power amplifier and low speed switching applications.
- Suitable for output stage of 5 watts car radio and car stereo.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	3	А
I _B	Base Current-Continuous	1	А
Pc	Total Power Dissipation @ T _C =25℃	10	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C





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2SC2877

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	40			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A; V _{CE} = 2V			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 2V	80		240	
h _{FE-2}	DC Current Gain	I _C = 2.5A; V _{CE} = 2V	25			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 2V		100		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		35		pF

♦ h_{FE} Classifications

0	Y
80-160	120-240

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