

isc Silicon NPN Power Transistor

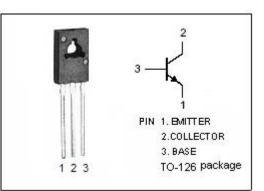
2SC3422

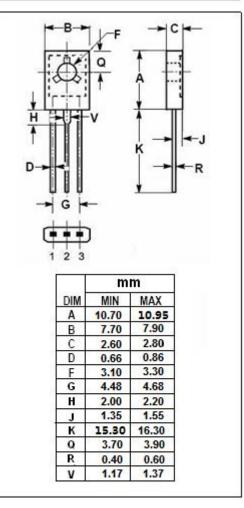
DESCRIPTION

- Collector-Emitter Breakdown Voltage : V_{(BR)CEO}= 40V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA1359
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier
- Low speed switching
- Suitable for output stage of 5 watts car radio and car stereo





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	3	А	
I _B	Base Current-Continuous	1	А	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	10	10 W 1.5	
	Collector Power Dissipation @ Ta=25℃	1.5		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	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	μA
Іево	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μA
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			
fT	Current-Gain—Bandwidth Product	Ic= 0.5A; V _{CE} = 2V		100		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		35		pF

h_{FE-1} Classifications

0	Y	
80-160	120-240	

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