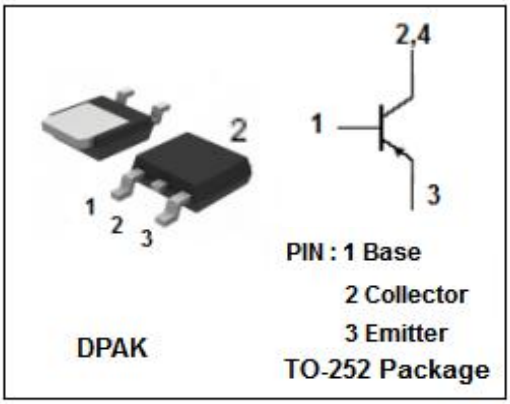
isc Silicon PNP Power Transistor — 2SA1358-Z



DESCRIPTION

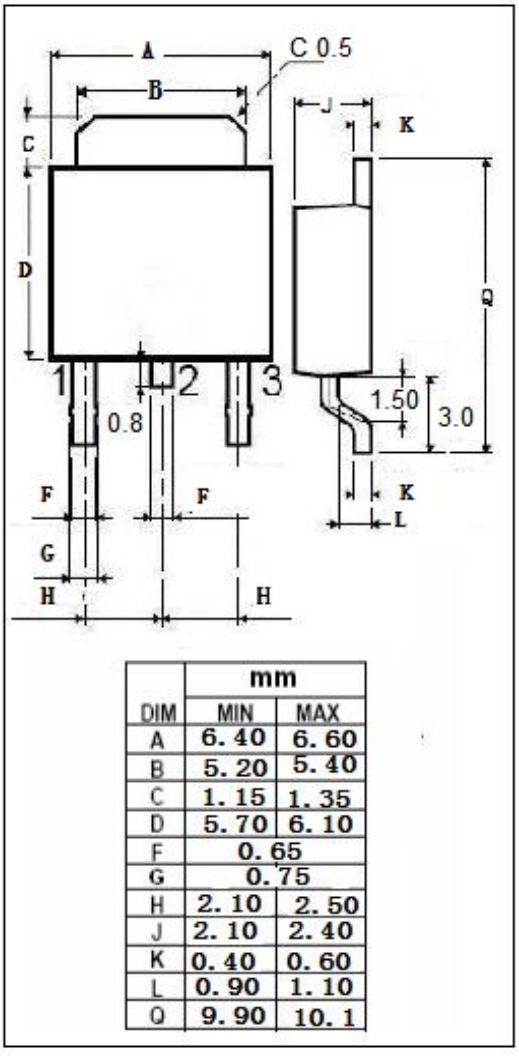
- With TO-252(DPAK) packaging
- Excellent linearity of h_{FE}
- Low collector-to-emitter saturation voltage
- Fast switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1	A
I_B	Base Current-Continuous	-0.1	A
P_C	Collector Power Dissipation @ T_C=25℃	10	W
	Collector Power Dissipation @ T_a=25℃	1.5	
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

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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= -10mA ; I_B= 0	-120			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA ; I_C= 0	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -500mA; I_B= -50mA			-1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -500mA ; V_{CE}= -5V			-1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -120V; I_E= 0			-0.1	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-0.1	μA
h_{FE}	DC Current Gain	I_C= -0.1A ; V_{CE}= -5V	80		240	
f_T	Current-Gain—Bandwidth Product	I_C= -0.1A ; V_{CE}= -5V		120		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V, f_{test}= 1MHz		30		pF

◆ **h_{FE} Classifications**

O	Y
80-160	120-240

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