

isc Silicon NPN Power Transistor

2SC2168

DESCRIPTION

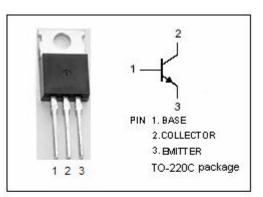
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 200V(Min)
- DC Current Gain-
 - : h_{FE} = 60(Min)@ (V_{CE}= 10V, I_C= 0.7A)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

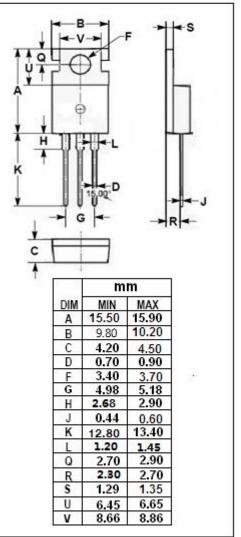
APPLICATIONS

• Designed for TV vertical output ,audio output driver and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	200	V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	2	A	
lв	Base Current-Continuous	1	А	
Pc	Collector Power Dissipation @T _c =25°C	30	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	°C	





isc website: www.iscsemi.cn

1



isc Silicon NPN Power Transistor

2SC2168

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	200			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 0.7A; I _B = 0.07A			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			10	μA
Іево	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	μA
h _{FE}	DC Current Gain	I _C = 0.7A; V _{CE} = 10V	60			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1МНz		35		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -0.2A ; V _{CE} = 12V		15		MHz

Switching Times

t _{on}	Turn-On Time		1.0	μ S
t _{stg}	Storage Time	I _C = 1A; I _{B1} = -I _{B2} = 0.1A; V _{CC} = 20V; R _L = 20 Ω	3.0	μ S
t _f	Fall Time		1.5	μ S

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

2

isc website: www.iscsemi.cn