

isc Silicon PNP Power Transistor

2SA968 A B

DESCRIPTION

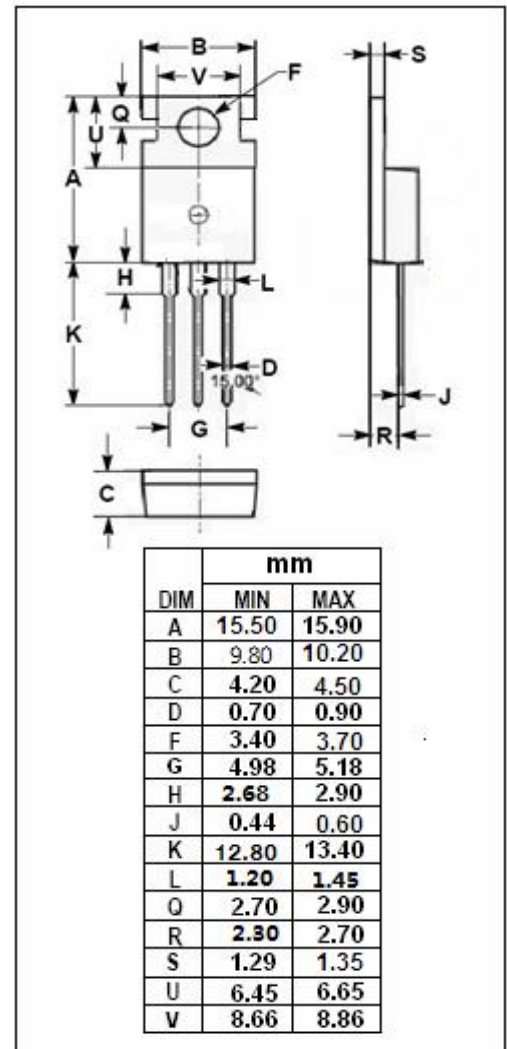
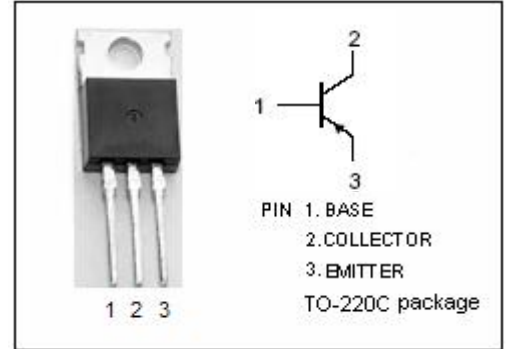
- With TO-220 packaging
- Complement to Type 2SC2238 A B
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- AC-DC motor control
- Electronic ignition
- Alternator regulator

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	2SA968 -160	V
		2SA968A -180	
		2SA968B -200	
V_{CEO}	Collector-Emitter Voltage	2SA968 -160	V
		2SA968A -180	
		2SA968B -200	
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1.5	A
I_E	Emitter Current- Continuous	-1.5	A
P_C	Total Power Dissipation @ $T_C=25^{\circ}\text{C}$	25	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



isc Silicon PNP Power Transistor

2SA968 A B

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	2SA968	-160		V
			2SA968A	-180		
			2SA968B	-200		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA ; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.5A; I _B = -50mA			-1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A ; V _{CE} = -5V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -160V ; I _E = 0	2SA968		-1.0	μ A
		V _{CB} = -180V ; I _E = 0	2SA968A			
		V _{CB} = -200V ; I _E = 0	2SA968B			
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1.0	μ A
h _{FE}	DC Current Gain	I _C = -0.1A ; V _{CE} = -5V	70		240	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		30		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -10V		100		MHz

◆ h_{FE} Classifications

O	Y
70-140	120-240

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.