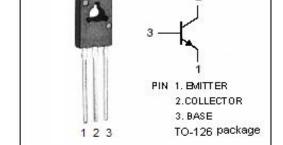


ISC Silicon NPN Power Transistor

2SD669A

DESCRIPTION

- High Collector Current-I_C= 1.5A
- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V(Min)
- Good Linearity of hFE
- · Low Saturation Voltage
- Complement to Type 2SD649
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

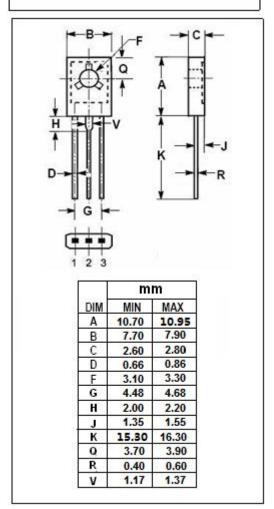


APPLICATIONS

· Power amplifier applications

ABSOLUTE MAXIMUM RATINGS(TC=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	180	V	
V _{CEO}	Collector-Emitter Voltage	160	V	
V_{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous	1.5	А	
I _{CP}	Collector Current-Pulse	3	Α	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	20	20 W	
	Collector Power Dissipation @ T _a =25°C	1		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	





isc Silicon NPN Power Transistor

2SD669A

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	180			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; R _{BE} = ∞	160			V
V _{(BR)EBO}	Emitter-Base Breakdown VItage	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	Ic= 150mA ; VcE= 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			10	μА
h _{FE-1}	DC Current Gain	Ic= 150mA ; VcE= 5V	60		200	
h _{FE-2}	DC Current Gain	I _C = 500mA ; V _{CE} = 5V	30			
f⊤	Current-Gain—Bandwidth Product	I _C = 150mA ; V _{CE} = 5V		140		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V,f _{test} = 1MHz		27		pF

♦ h_{FE-1} Classifications

В	С		
60-120	100-200		

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.