

isc Silicon NPN Power Transistor

2SC5358

DESCRIPTION

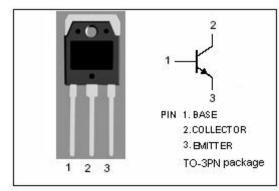
- · High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 230V(Min)
- Complement to Type 2SA1986
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

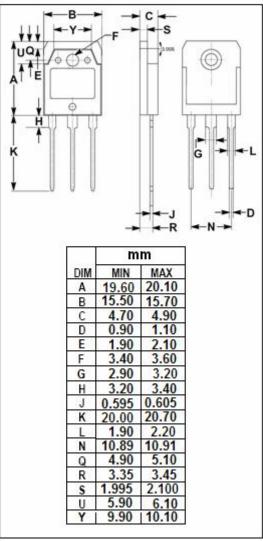


- · Power amplifier applications
- Recommend for 80W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	230	V	
V _{CEO}	Collector-Emitter Voltage	230	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	15	А	
I _B	Base Current-Continuous	1.5	А	
Pc	Collector Power Dissipation @ T _C =25℃	150	W	
TJ	Junction Temperature 150		$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







isc Silicon NPN Power Transistor

2SC5358

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 = 50mA ; I _B = 0	230			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8.0A; I _B = 0.8A			3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 7A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 230V; I _E = 0			5	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	35			
Сов	Output Capacitance	I _E =0 ; V _{CB} = 10V; f _{test} = 1.0MHz		200		pF
fτ	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz

♦ h_{FE-1} Classifications

R	0		
55-110	80-160		



isc Silicon NPN Power Transistor

2SC5358



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.

isc Website: www.iscsemi.cn 3

isc & iscsemi is registered trademark