

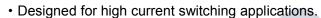


isc Silicon NPN Power Transistor

DESCRIPTION

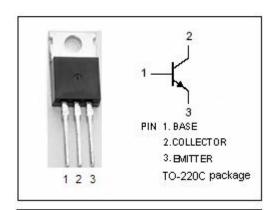
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 0.4V(Max.)@ I_C= 3A
- · High Switching Speed
- · Complement to Type 2SA1293
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

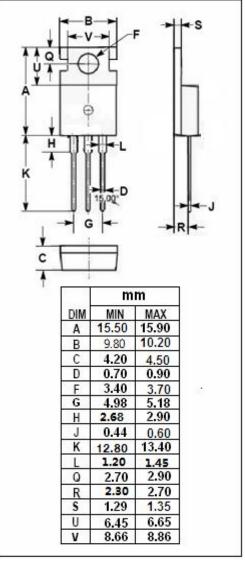
APPLICATIONS



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	100	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	5	А	
Ісм	Collector Current-Peak	8	Α	
I _B	Base Current-Continuous	1	Α	
Pc	Collector Power Dissipation @ T _C =25℃	30	W	
TJ	T _J Junction Temperature		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







isc Silicon NPN Power Transistor

2SC3258

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.15A			0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.15A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	μ A
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 1V	70		240	
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 1V	40			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 4V		120		MHz
Сов	Output Capacitance	I _E =0; V _{CB} = 10V; f _{test} =1.0MHz		80		pF
Switching times						
t _{on}	Turn-On Time			0.2		μs
t _{stg}	Storage Time	I_{B1} = - I_{B2} = 0.15A; R_L = 10 Ω ; V_{CC} \approx 30V		1.0		μs
t _f	Fall Time			0.1		μS

♦ h_{FE-1} Classifications

0	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.

isc website: www.iscsemi.com