

ISC Silicon NPN Power Transistor

DESCRIPTION

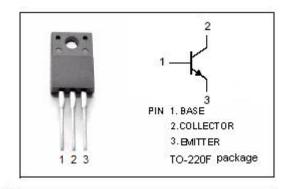
- · Collector-Emitter Sustaining Voltage
 - : V_{CEO(SUS)} = 800V(Min.)
- · Low Collector Saturation Voltage
 - : V_{CE(sat)} =1V(Max) @ I_C= 1.2A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

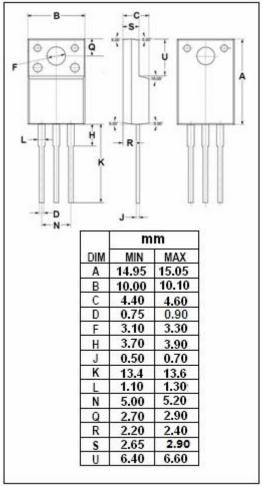


 Designed for use in lighting applications and low cost switch-mode power supplies

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Emitter Voltage	900	V
V _{CEO}	Collector-Emitter Voltage	800	9V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	3	Α
I _{CM}	Collector Current-peak t _p <5ms	5	Α
lв	Base Current-Continuous	1	Α
Pc	Collector Power Dissipation T _c =25°C	25	W
	Collector Power Dissipation T_a =25 $^{\circ}$ C	2	W
Ti	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







ISC Silicon NPN Power Transistor

2SC5353

ELECTRICAL CHARACTERISTICS

T_C =25°C unless otherwise specified

.c 								
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CBO}	Collector -Base Breakdown Voltage	I _C = 1mA; I _E = 0	900			٧		
V _{(BR)CEO}	Collector - Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	800			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.2A; I _B = 0.24A			1	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.2A; I _B = 0.24A			1.3	V		
Ісво	Collector Cutoff Current	V _{CE} =720V; I _E = 0			0.1	mA		
ІЕВО	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			10	uA		
h _{FE-1}	DC Current Gain	I _C = 1mA; V _{CE} = 5V	10					
h _{FE-2}	DC Current Gain	I _C = 0.15A; V _{CE} = 5V	15					
Switching Times, Inductive Load								
ts	Storage Time	0.044			4	μ S		
t _f	Fall Time	_{в1} = 0.24А;			0.5	μS		

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.