



ISC Silicon NPN Power Transistor

DESCRIPTION

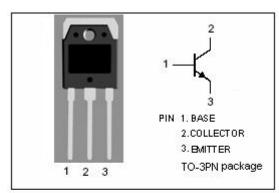
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 400V(Min)
- · High Switching Speed
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

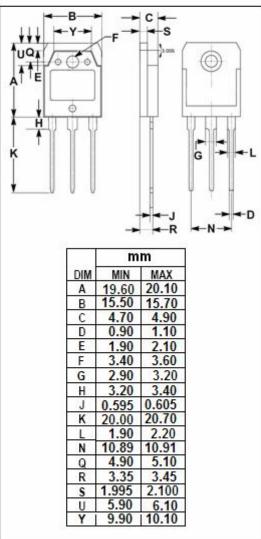
APPLICATIONS

· Designed for high voltage, high speed and high power switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base voltage	10	V
lc	Collector Current-Continuous	10	А
Ісм	Collector Current-Peak	20	А
I _B	Base Current-Continuous	5	А
Pc	Collector Power Dissipation @ T _C =25°C	80	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







isc Silicon NPN Power Transistor

2SC3365

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 0.2A; R _{BE} = ∞; L= 100mH	400			V	
V _{CEX(SUS)}	Collector-Emitter Sustaining Voltage	I_{C} = 10A; I_{B1} = 2A; I_{B2} = -0.6A; V_{BE} = -5V; L= 180 μ H; Clamped	400			V	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = 10mA; I _C = 0	10			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.0	V	
$V_{\text{BE}(sat)}$	Base-Emitter Saturation Voltage	Ic= 5A; I _B = 1A			1.5	V	
Ісво	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			50	μА	
ICEO	Collector Cutoff Current	V _{CE} = 350V; R _{BE} = ∞			50	μ А	
h _{FE-1}	DC Current Gain	I _C = 5A; V _{CE} = 5V	12				
h _{FE-2}	DC Current Gain	I _C = 10A; V _{CE} = 5V	5				
Switching times							

Switching times

t _{on}	Turn-on Time			1.0	μS
t _{stg}	Storage Time	I _C = 10A, I _{B1} = -I _{B2} = 2A; V _{CC} ≈ 150V		2.5	μς
t _f	Fall Time			1.0	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.