

isc Silicon NPN Power Transistor

2SC4582

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 450V(Min)
- Fast Switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for power switching applications.

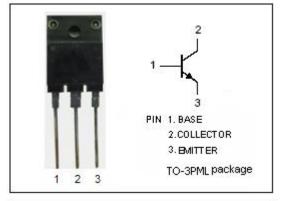
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

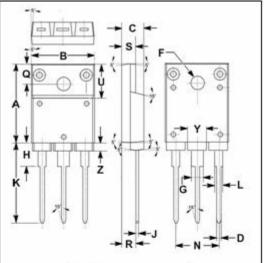
SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	600	v
VCEO	Collector-Emitter Voltage	450	V
V _{CEX}	Collector-Emitter Voltage V _{EB} = 5V	600	V
Vebo	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	15	А
I _{CM}	Collector Current-Peak	30	A
I _B	Base Current-Continuous	6	A
I _{BM}	Base Current-Peak	12	А
PT	Total Power Dissipation (@ $T_c=25^{\circ}C$	75	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.67	°C/W

1





	mm	
DIM	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
Ν	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

isc website: www.iscsemi.com

isc & iscsemi is registered trademark



isc Silicon NPN Power Transistor

2SC4582

ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	450			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7.5A; I _B = 1.5A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7.5A; I _B = 1.5A			1.5	V
І _{сво}	Collector Cutoff Current	At rated Voltage			100	μA
Iceo	Collector Cutoff Current	At rated Voltage			100	μA
I _{EBO}	Emitter Cutoff Current	At rated Voltage			100	μA
h _{FE-1}	DC Current Gain	I _C = 7.5A; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	5			
fT	Current-Gain—Bandwidth Product	I _C = 1.5A; V _{CE} = 10V		20		MHz

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.