

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistors

2SC4941

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 800V(Min)
- Fast Switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Color TV horizontal deflection output applications

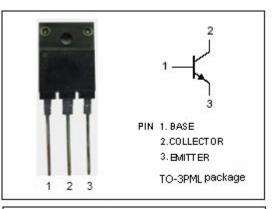
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

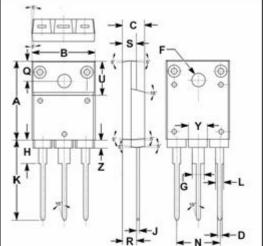
· Color display horizontal deflection output applications

ABCCEC						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	1500	v			
V _{CEO}	Collector-Emitter Voltage	800	v			
V _{EBO}	Emitter-Base Voltage	7	V			
lc	Collector Current-Continuous	6	А			
I _{CP}	Collector Current-Peak	12	А			
I _B	Base Current-Continuous	3	А			
I _{BP}	Base Current-Peak	6	А			
PT	Total Power Dissipation (@ T_c =25 °C	65	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.92	°C/W	





	m	m
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
κ	21.10	22.50
L	1.90	2.25
Ν	10.80	11.00
Q	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



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =50mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
I _{CBO}	Collector Cutoff Current	At rated Voltage			100	μA
I _{CEO}	Collector Cutoff Current	At rated Voltage			100	μA
Іево	Emitter Cutoff Current	At rated Voltage			100	μA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 1mA ; V _{CE} = 5V	7			
fT	Current-Gain—Bandwidth Product	Ic= 0.6A ; Vce= 10V		8		MHz

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