

isc Silicon NPN Power Transistor

2SC4770

DESCRIPTION

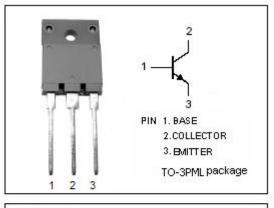
- High Breakdown Voltage-
- : V_{(BR)CBO}= 1500V(Min)
- High Switching Speed
- High Reliability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

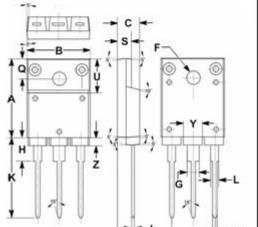
APPLICATIONS

 Ultrahigh-definition color display horizontal deflection output applications

SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	1500	V		
Vceo	Collector-Emitter Voltage	800	V		
V_{EBO}	Emitter-Base Voltage	6	V		
lc	Collector Current-Continuous	7	A		
ICP	Collector Current-Peak	16	А		
Pc	Collector Power Dissipation @ Ta=25℃	3.0	W		
	Collector Power Dissipation @ T_c =25 °C	60			
TJ	Junction Temperature 150		°C		
T _{stg}	Storage Temperature Range	rage Temperature Range -55~150			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





j,	mm		
DIM	MIN	MAX	
Α	19.90	20.10	
В	15.90	16.10	
С	5.50	5.70	
D	0.90	1.10	
F	3.30	3.50	
G	2.90	3.10	
Н	5.90	6.10	
J	0.595	0.605	
Κ	22.30	22.50	
L	1.90	2.10	
Ν	10.80	11.00	
0	4.90	5.10	
R	3.75	3.95	
S	3.20	3.40	
U	9.90	10.10	
Υ	4.70	4.90	
Ζ	1.90	2.10	

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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 = 0.1A; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.7A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1.7A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μA
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V; R _{BE} = 0			1.0	mA
Іево	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	mA
h _{FE-1}	DC current gain	I _C = 1A; V _{CE} = 5V	8			
hfe-2	DC current gain	Ic= 5A; V _{CE} = 5V	3		8	

Switching times

tstg	Storage Time	I _C = 4A , I _{B1} = 0.8A; I _{B2} = -1.6A		3.0	μ \$
t _f	Fall Time	R _L = 50 Ω ; V _{CC} = 200V		0.2	μS

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h_{FE-2} Classifications

1	2	3
3-5	4-6	5-8



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