

isc Silicon NPN Power Transistor

2SC4437

DESCRIPTION

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

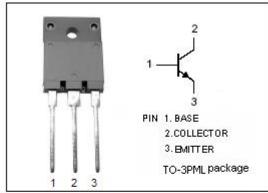


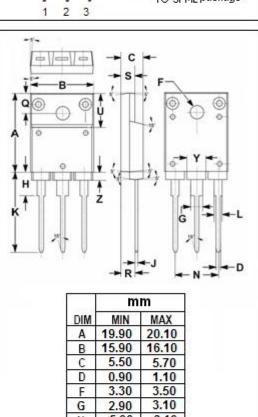
APPLICATIONS

 Ultrahigh-definition color display horizontal deflection output applications



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	5	A	
Іср	Collector Current-Peak	16	А	
Pc	Collector Power Dissipation @ T _a =25℃	3.0		
	Collector Power Dissipation @ T _C =25℃	50	W	
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





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DIM	MIN	MAX
Α	19.90	20.10
В	15.90	16.10
C	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
K	22.30	22.50
L	1.90	2.10
N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.40
U	9.90	10.10
Y	4.70	4.90
Z	1.90	2.10



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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 = 4A; I _B = 1A			5.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μА			
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						
h _{FE-2}	DC current gain	I _C = 4A; V _{CE} = 5V	4		6				
Switching times									
tstg	Storage Time	I _C = 4A , I _{B1} = 0.8A; I _{B2} = -1.6A;			3.0	μS			
t _f	Fall Time	V _{CC} = 200V			0.3	μS			

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