

isc Silicon NPN Power Transistor

2SC4830

DESCRIPTION

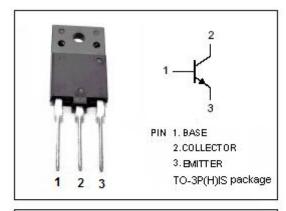
- · High Breakdown Voltage-
- : V_{CBO}= 1500V(Min)
- · High Switching Speed
- · Low Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

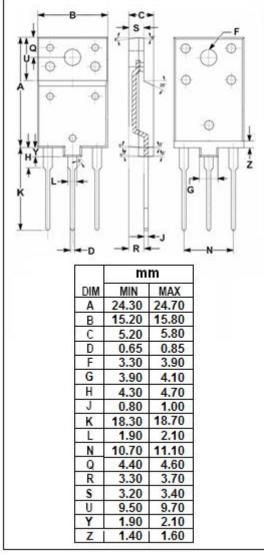
APPLICATIONS

- Horizontal deflection output for high resolution display.
- · High speed switching power supply output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	6	А	
Ісм	Collector Current-Peak	12	А	
Ів	Base Current-Continuous	3	A	
Pc	Collector Power Dissipation @ T _C =25℃	50	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

10-23 C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
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			
Ісво	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			1.0	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА			
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		8				
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		175		pF			
Switching Times; Resistive Load									
tstg	Storage Time	I _C = 4A; I _{B1} = 0.8A; I _{B2} = -1.6A;			2.5	μ S			
t _f	Fall Time	R _L = 51 Ω			0.2	μs			

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