

isc Silicon NPN Power Transistor

2SC4916

DESCRIPTION

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

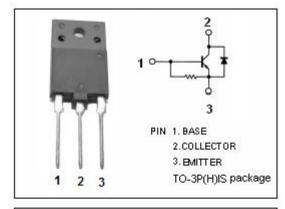


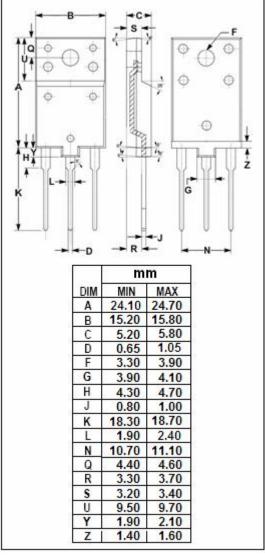
APPLICATIONS

 Horizontal output applications for medium resolution display & color TV.



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
Ic	Collector Current- Continuous	urrent- Continuous 7	
Ісм	Collector Current- Continuous	14	Α
l _Β	Base Current- Continuous	3.5	Α
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	50	W
Тл	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

T _C =25°C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 300mA; I _C = 0	5			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			5.0	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	Ic= 5A; I _B = 1A			1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			1.0	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0	83		250	mA			
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8		20				
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	5		9				
V _{ECF}	C-E Diode Forward Voltage	I _F = 5A			1.8	V			
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		160		pF			
Switching Times									
t _{stg}	Storage Time	I _{CP} = 5A; I _{B1} = 1A; I _{B2} = -2A;			3.0	μS			
t _f	Fall Time	R _L = 39 Ω			0.2	μ s			



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