



isc Silicon NPN Power Transistor

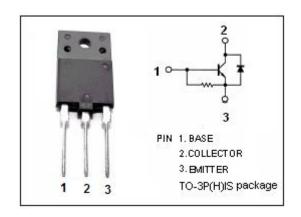
2SC3893A

DESCRIPTION

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

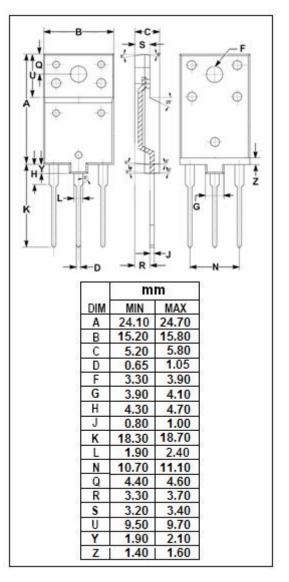
APPLICATIONS

· Designed for horizontal deflection output applications



ABSOLUTE MAXIMUM RATINGS(T_a=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
Ic	Collector Current- Continuous	8	А
Ісм	Collector Current- Peak	15	A
I _B	Base Current- Continuous	4	А
P _C	Collector Power Dissipation @ Tc=25℃	50	W
Тл	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	5			V		
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	1500			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.5A			5.0	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= 6A; I _B = 1.5A			1.5	V		
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0	66		200	mA		
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8					
V _{ECF}	C-E Diode Forward Voltage	I _F = 6A			2.0	V		
f _T	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		210		pF		
Switching Times , Resistive load								
t _{stg}	Storage Time	I _{CP} = 6A, I _{B1} = 1.2A; I _{B2} = -2.4A;			2.5	μS		
tf	Fall Time	R_L = 33.3 Ω			0.2	μS		

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