

2SC3897



ISC Silicon NPN Power Transistor

DESCRIPTION

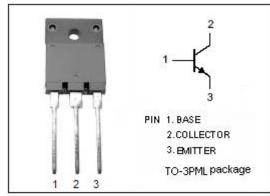
- · High Breakdown Voltage
- · High Switching Speed
- Wide Area of Safe Operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

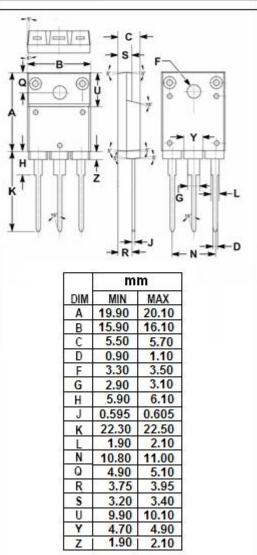
APPLICATIONS

• Ultrahigh definition CRT display horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current- Continuous	10	А	
I _{CM}	Collector Current- Peak	25	А	
Pc	Collector Power Dissipation @ T _C =25℃	70	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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2A			5.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =8A; I _B = 2A			1.5	V			
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			100	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} =4V; I _C = 0			100	uA			
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8						
h _{FE-2}	DC Current Gain	I _C = 8A; V _{CE} = 5V	4		8				
Switching times									
t _{stg}	Storage Time				3	μ S			
t _f	Fall Time	I _C = 6A ;I _{B1} =1.2A; I _{B2} = -2.4A			0.2	μS			

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