

isc Silicon NPN Power Transistor

2SD1877

DESCRIPTION

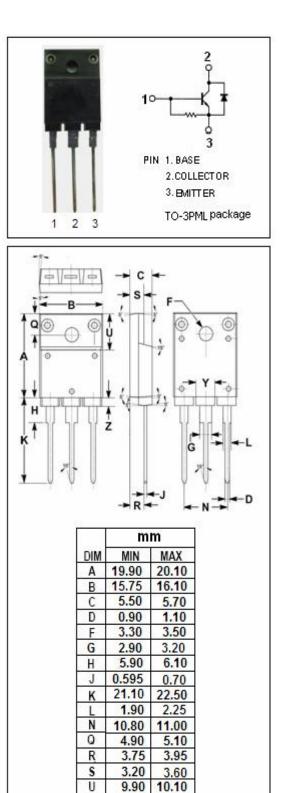
- High Breakdown Voltage-V_{CBO}= 1300V (Min)
- High Speed Switching
- High Reliability
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Color TV horizontal deflection output
- · Color display horizontal deflection output

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	1300	V			
Vceo	Collector-Emitter Voltage	800	V			
V _{EBO}	Emitter-Base Voltage	6	V			
lc	Collector Current- Continuous	4	A			
ICP	Collector Current-Pulse	12	А			
Pc	Collector Power Dissipation @ Tc=25℃	50	W			
TJ	Junction Temperature	150	Ĉ			
T _{stg}	Storage Temperature Range	-55~150	°C			





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4.90

2.10

4.20

1.90



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	800			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
Ices	Collector Cutoff Current	V _{CE} = 1300V ; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0	40		130	mA
h _{FE-1}	DC Current Gain	Ic= 0.5A ; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	Ic= 2.5A ; Vce= 5V	3.5		7	
V _{ECF}	C-E Diode Forward Voltage	I _F = 4A			2.0	V
tr	Fall Time	I _C = 3A , I _{B1} = 0.8A ; I _{B2} = -1.6A			0.3	μ S

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