

isc Silicon NPN Power Transistor

2SD1846

DESCRIPTION

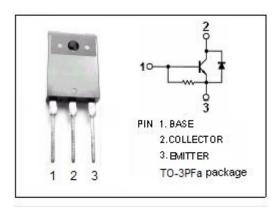
- · Collector-Base Breakdown Voltage-
 - : V_{CBO}= 1300V (Min.)
- · High Switching Speed
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

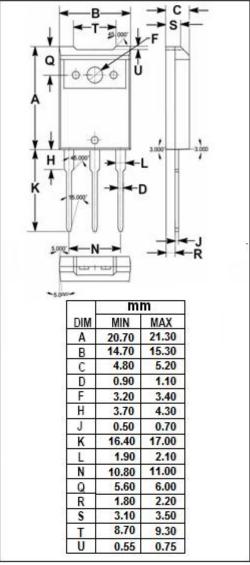
APPLICATIONS

• Designed for horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector- Base Voltage	1300	V
V _{CES}	Collector-Emitter Voltage	1300	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous 3.5		Α
I _{CM}	Collector Current-Peak	10	Α
l _Β	Base Current- Continuous	1.5	А
Pc	Collector Power Dissipation @ T _a =25°C	3	
	Collector Power Dissipation @ Tc=25°C	60	W
Тл	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

10-23 C uniess otherwise specified								
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	7			V		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	Ic= 3A; I _B = 0.8A			8.0	V		
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V		
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0 V _{CB} = 1300V; I _E = 0			10 1.0	μA mA		
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	5		25			
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 10V	4					
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		2		MHz		
V _{ECF}	C-E Diode Forward Voltage	I _F = 3.5A			2.0	V		
Switching times, Resistive Load								
t _{stg}	Storage Time	I _C = 3A; I _{B1} = 0.8A; I _{B2} = 1.6A;		1.5		μs		
t _f	Fall Time	V _{CC} = 200V		0.2		μ S		

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