

isc Silicon NPN Power Transistor

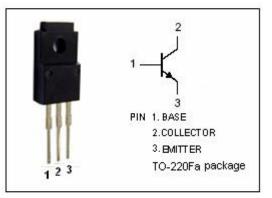
2SD1585

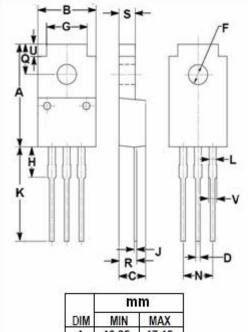
DESCRIPTION

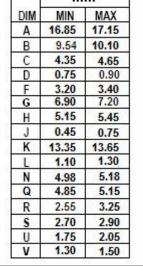
- High Collector Current:: Ic= 3A
- Low Collector Saturation Voltage
 : V_{CE(sat)}= 1.5V(Max)@I_C= 2A
- Complement to Type 2SB1094
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for power supplies or a variety of drives in audio and other equipment.







ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	3	A	
Ісм	Collector Current-Peak	5	А	
I _B	Base Current-Continuous	0.6	А	
Pc	Total Power Dissipation @ T₂=25℃	2		
	Total Power Dissipation @ T _c =25℃	15	W	
TJ	Junction Temperature	150	ĉ	
T _{stg}	Storage Temperature Range	-55~150	°C	

isc website: <u>www.iscsemi.com</u>



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2SD1585

ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			10	μA
h _{FE-1}	DC Current Gain	I _C = 50mA; V _{CE} = 5V	20			
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	40		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		48		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		16		MHz

h_{FE-2} Classifications

М	L	к
40-80	60-120	100-200

NOTICE:

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