

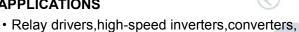


ISC Silicon NPN Power Transistor

DESCRIPTION

- High Collector Current-I_C= 5.0A
- · Low Saturation Voltage -
 - : $V_{CE(sat)}$ = 0.4V(Max)@ I_{C} = 3.0A, I_{B} = 0.15A
- · Good Linearity of hFE
- · Complement to Type 2SB1203
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

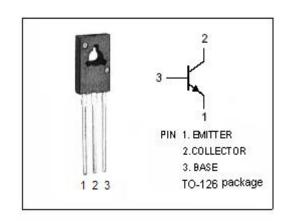
APPLICATIONS

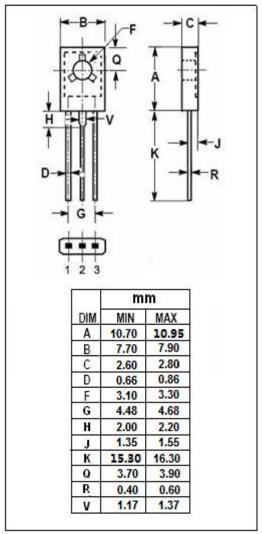


and other general high-current switching applications.



SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	6	٧	
Ic	Collector Current-Continuous	5.0	Α	
Іср	Collector Current-Pulse	8.0	Α	
Pc	Collector Power Dissipation @ T _a =25℃	1.0	W	
	Collector Power Dissipation @ T _C =25 °C	20		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc website: www.iscsemi.com

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isc Silicon NPN Power Transistor

2SD1803

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3.0A; I _B = 0.15A			0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3.0A; I _B = 0.15A			1.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A ; V _{CE} = 2V	70		400	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 2V	35			

♦ h_{FE-1} Classifications

Q	R	S	T
70-140	100-200	140-280	200-400

NOTICE:

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