



isc Silicon NPN Darlington Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO} = 80V(Min.)$
- DC Current Gain-
 - : h_{FE} = 2000(Min) @ I_C= 1A
- · Low Collector Saturation Voltage
- Complement to Type 2SB795
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

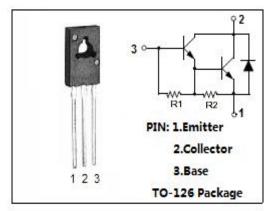


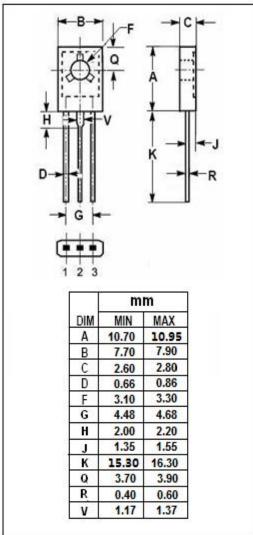
APPLICATIONS

• They are suitable for use to operate from IC without predriver, such as hammer driver.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{EBO}	Emitter-Base Voltage	8	V	
Ic	Collector Current-Continuous	1.5	А	
I _{CM}	Collector Current-Pulse	3.0	А	
I _B	Base Current	0.15	Α	
D	Collector Power Dissipation T _a =25°C	1.0	W	
Pc	Collector Power Dissipation Tc=25 °C	10		
Ti	T _i Junction Temperature		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





1.0

11.5



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2SD986

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 1mA			1.5	V	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 1mA			2.0	V	
Ісво	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			10	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA	
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 2V	1000				
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 2V	2000		30000		
Switching Times							
t _{on}	Turn-on Time			0.5		μS	
t _{stg}	Storage Time	I_{C} =1.0A; I_{B1} = I_{B2} =1.0mA V_{CC} =50V; R_{L} =50 Ω		1.0		μS	

♦ h_{FE-2} Classifications

Fall Time

М	L	К	
2000-5000	4000-10000	8000-30000	

NOTICE:

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