

isc Silicon PNP Darlington Power Transistor

2SB1560

DESCRIPTION

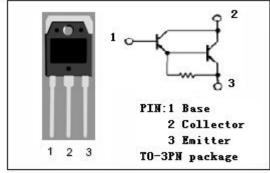
- · High DC Current Gain-
- : h_{FE}= 5000(Min)@I_C= -7A
- Low-Collector Saturation Voltage-
- : V_{CE(sat)}= -2.5V(Max.)@I_C= -7A
- · Complement to Type 2SD2390
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

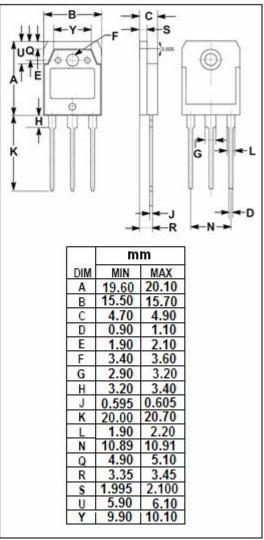


 Designed for audio, series regulator and general purpose applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-10	А
I _B	Base Current- Continuous	-1	А
Pc	Collector Power Dissipation @ T _C =25℃	100	W
Тл	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_{C} =25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-150			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= -7A; I _B = -7mA			-2.5	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -7A; I _B = -7mA			-3.0	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = -160V; I _E = 0			-100	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μ А	
h _{FE}	DC Current Gain	I _C = -7A; V _{CE} = -4V	5000		30000		
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		230		pF	
Switching Times							
t _{on}	Turn-on Time			0.8		μ S	
t _{stg}	Storage Time	I_{C} = -7A; I_{B1} = - I_{B2} = -7mA, V_{CC} = -70V, R_{L} = 10 Ω		3.0		μ S	
t _f	Fall Time			1.2		μ S	

♦ h_{FE} Classifications

0	Р	Y
5000-12000	6500-20000	15000-30000



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