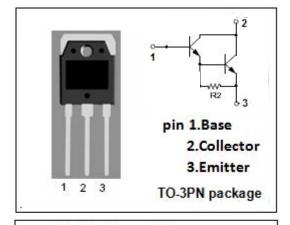


isc Silicon NPN Darlington Power Transistor

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 2SB1560
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

 Designed for audio, series regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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

	111 -	-Y->]_ _F =	C ← S	
	UQI	0		3 006	
	AT E				
	, ,	0]	Щ	
	↑ 	YY	1		YAM
-	K				G - L
3	•				
-				► - J	→ → D
			-	⊸ R	← N-►
-		200	mm		
		DIM	MIN	MAX	
		Α	19.60	20.30	
-		В	15.50	15.70	
		C	4.70	4.90	
		D	0.90	1.10	
_		E	1.90	2.10	
		F	3.40	3.60	8
		-	2 00	2.20	10

K 19.80 20.70
L 1.90 2.20
N 10.89 10.91
Q 4.90 5.10
R 3.35 3.45
S 1.995 2.100
U 5.90 6.20
Y 9.90 10.10

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isc Silicon NPN Darlington Power Transistor

2SD2390

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	150			٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 7mA			2.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 7mA			3.0	٧
Ісво	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 7A; V _{CE} = 4V	5000			

h_{FE} Classifications

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

NOTICE:

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