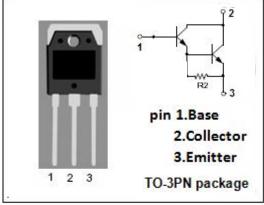
isc Silicon NPN Darlington Power Transistor

2SD2390

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

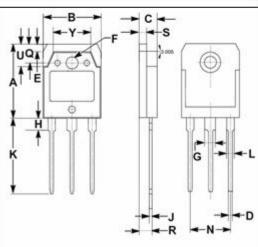


APPLICATIONS

 Designed for audio, series regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	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



	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
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
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
Υ	9.90	10.10



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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			V
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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