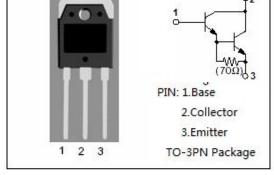


isc Silicon NPN Darlington Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 150V(Min)
- · High DC Current Gain-
 - : h_{FE} = 5000(Min.) @(I_C = 7A, V_{CE} = 4V)
- · Low Collector Saturation Voltage-
- $: V_{CE(sat)} = 2.5V(Max)@ (I_C = 7A, I_B = 7mA)$
- Complement to Type 2SB1560
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

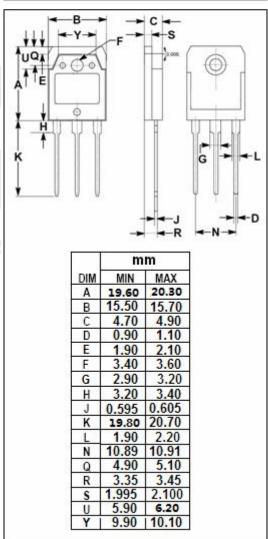


APPLICATIONS

 Designed for audio, series regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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





isc Silicon NPN Darlington Power Transistor

2SD2390

ELECTRICAL CHARACTERISTICS

Tj=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	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	μА
h _{FE}	DC Current Gain	I _C = 7A; V _{CE} = 4V	5000			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		95		pF
f _T	Current-Gain—Bandwidth Product	I _E = -2A ; V _{CE} = 12V		55		MHz

♦ h_{FE} Classifications

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

Notice:

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