

isc Silicon NPN Darlington Power Transistor

2SD2558

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 200V(Min)
- High DC Current Gain-
- : h_{FE} = 1500(Min.) @(I_C= 1A, V_{CE}= 5V)
- · Low Collector Saturation Voltage-

: V_{CE(sat)}⁼ 1.5V(Max)@ (I_C= 1A, I_B= 5mA)

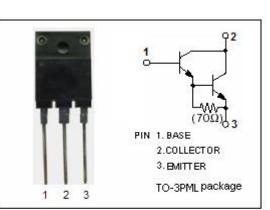
 Minimum Lot-to-Lot variations for robust device performance and reliable operation

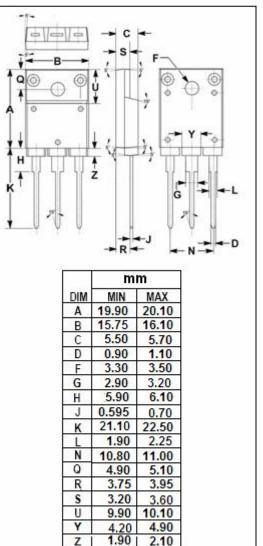
APPLICATIONS

• Designed for series regulator and general purpose applications.

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	200	V	
Vebo	Emitter-Base Voltage 6		V	
lc	Collector Current-Continuous	5	A	
IB	Base Current-Continuous 2		А	
Pc	Collector Power Dissipation 60		W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA, I _B = 0	200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1Α ,I _B = 5mA			1.5	V
I _{CBO}	Collector Cutoff current	V _{CB} = 200V, I _E = 0			0.1	mA
І _{ЕВО}	Emitter Cutoff current	V _{EB} = 6V, I _C = 0			5.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	1500		6500	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		110		pF
fT	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 10V		15		MHz



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