

New Jersey Semi-Conductor Products, Inc.

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Silicon NPN Power Transistors

2N6358

DESCRIPTION

- With TO-3 package
- High DC current gain
- DARLINGTON

APPLICATIONS

- For general-purpose amplifier and low-frequency switching applications

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a =$)

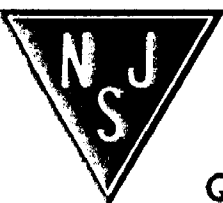
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	80	V
V_{CEO}	Collector-emitter voltage	Open base	60	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		20	A
I_B	Base current		0.5	A
P_D	Total Power Dissipation	$T_C = 25^\circ$	150	W
T_j	Junction temperature		200	
T_{stg}	Storage temperature		-65-200	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R_{th-jc}	Thermal resistance junction to case	1.09	/W

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Quality Semi-Conductors



CHARACTERISTICS

Tj=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdwon voltage	$I_C=0.2A ; I_B=0$	60			V
$V_{CEsat-1}$	Collector-emitter saturation voltage	$I_C=10A ; I_B=40mA$			2.0	V
$V_{CEsat-2}$	Collector-emitter saturation voltage	$I_C=20A ; I_B=1A$			4.0	V
$V_{BE sat}$	Base-emitter saturation voltage	$I_C=20A ; I_B=1A$			4.0	V
V_{BE}	Base-emitter on voltage	$I_C=10A ; V_{CE}=4V$			2.8	V
I_{CEO}	Collector cut-off current	$V_{CE}=60V ; I_B=0$			1.0	mA
I_{CBO}	Collector cut-off current	$V_{CB}=80V ; I_E=0$			0.5	mA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V ; I_C=0$			5.0	mA
h_{FE-1}	DC current gain	$I_C=4A ; V_{CE}=5V$	1500		10000	
h_{FE-2}	DC current gain	$I_C=20A ; V_{CE}=5V$	100			

