

Silicon NPN Power Transistors

2N6536

DESCRIPTION

- With TO-66 package
- DARLINGTON

APPLICATIONS

- Power switching
- Hammer drivers
- Series and shunt regulators
- Audio amplifiers

PINNING (See Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

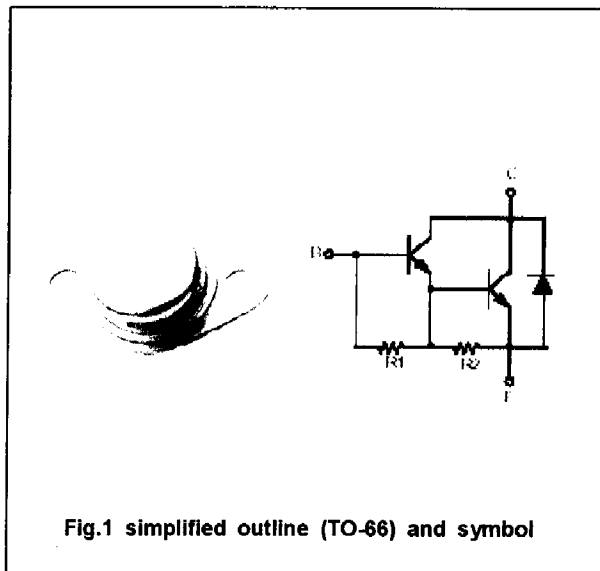
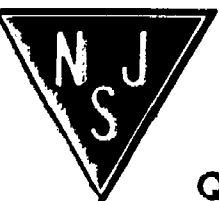


Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	100	V
V_{CEO}	Collector-emitter voltage	Open base	100	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		8	A
I_{CM}	Collector current-Peak		15	A
I_B	Base current		0.25	A
P_T	Total power dissipation	$T_c=25^\circ\text{C}$	36	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-65~150	$^\circ\text{C}$



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Quality Semi-Conductors

CHARACTERISTICS

T_J=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-emitter sustaining voltage	I _C =0.2A; I _B =0	100			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =5A; I _B =10mA			2.0	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =8A; I _B =80mA			3.0	V
V _{BE-1}	Base-emitter on voltage	I _C =5A; V _{CE} =3V			2.8	V
V _{BE-2}	Base-emitter on voltage	I _C =8A; V _{CE} =3V			4.5	V
I _{CEV}	Collector cut-off current	V _{CE} =100V; V _{BE} =-1.5V T _C =125°C			0.5 5.0	mA
I _{CEO}	Collector cut-off current	V _{CE} =100V; I _B =0			1.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			5.0	mA
h _{FE-1}	DC current gain	I _C =5A; V _{CE} =3V	1000		10000	
h _{FE-2}	DC current gain	I _C =8A; V _{CE} =3V	100		5000	
V _F	Diode forward voltage	I _F =8A			5.0	V

