

Silicon NPN Darlington Power Transistors

2SD2560

DESCRIPTION

www.datasheet4u.com

- With TO-3PN package
- Complement to type 2SB1647

APPLICATIONS

- Audio ,regulator and general purpose

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

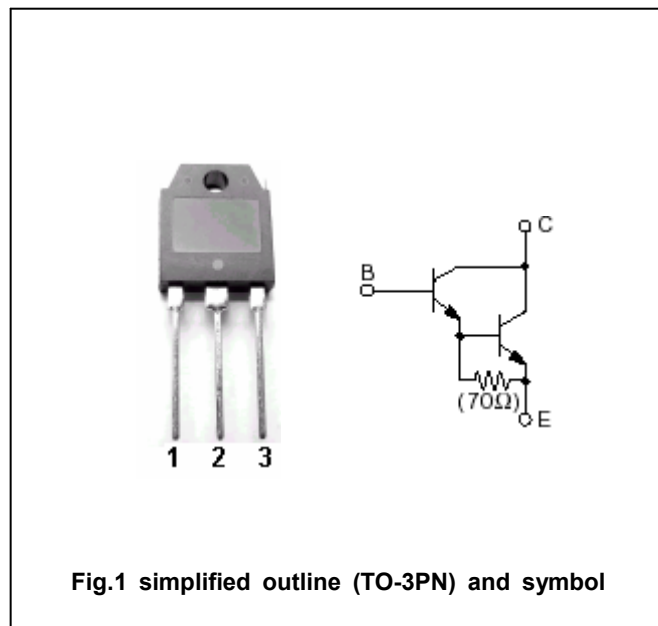


Fig.1 simplified outline (TO-3PN) and symbol

Absolute maximum ratings($T_a = \square$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	150	V
V_{CEO}	Collector-emitter voltage	Open base	150	V
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		15	A
I_B	Base current		1	A
P_C	Collector power dissipation	$T_C = 25\square$	130	W
T_j	Junction temperature		150	$\square$
T_{stg}	Storage temperature		-55~150	$\square$

Silicon NPN Darlington Power Transistors

2SD2560

CHARACTERISTICS

Tj=25°C unless otherwise specified

www.datasheet4u.com

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=30mA ; I_B=0$	150			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=10A ; I_B=10mA$			2.5	V
V_{BEsat}	Base-emitter saturation voltage	$I_C=10A ; I_B=10mA$			3.0	V
I_{CBO}	Collector cut-off current	$V_{CB}=150V ; I_E=0$			100	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=5V ; I_C=0$			100	μA
h_{FE}	DC current gain	$I_C=10A ; V_{CE}=4V$	5000			
C_{ob}	Output capacitance	$I_E=0 ; V_{CB}=10V ; f=1MHz$		120		pF
f_T	Transition frequency	$I_C=2A ; V_{CE}=12V$		70		MHz

Switching times

t_{on}	Turn-on time	$I_C=10A ; R_L=4\Omega$ $I_{B1}=-I_{B2}=10mA$ $V_{CC}=40V$		0.8		μs
t_s	Storage time			4.0		μs
t_f	Fall time			1.2		μs

◆ h_{FE} Classifications

O	P	Y
5000-12000	6500-20000	15000-30000

2SD2560

www.data sheet4u.com

