

Silicon NPN Power Transistors

2N6282 2N6283 2N6284

DESCRIPTION

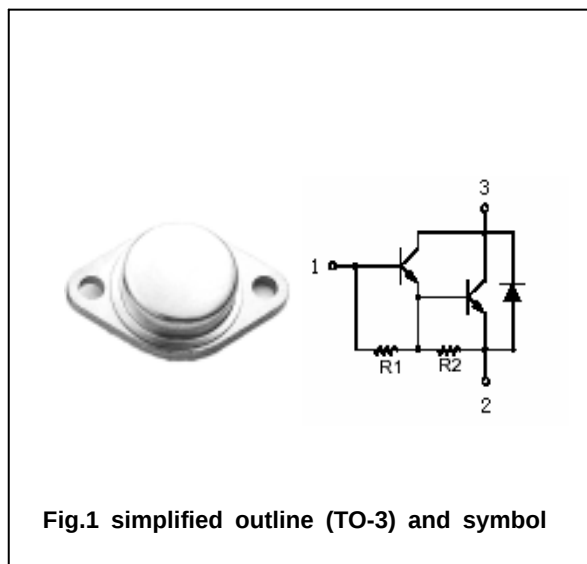
- With TO-3 package
- Complement to type 2N6285/6286/6287
- High DC current gain
- DARLINGTON

APPLICATIONS

- For use in 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	2N6282	60	V
		2N6283	80	
		2N6284	100	
V_{CEO}	Collector-emitter voltage	2N6282	60	V
		2N6283	80	
		2N6284	100	
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		20	A
I_{CM}	Collector current-peak		40	A
I_B	Base current		0.5	A
P_D	Total Power Dissipation	$T_C = 25$	160	W
T_j	Junction temperature		200	
T_{stg}	Storage temperature		-65~200	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	1.09	/W

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CHARACTERISTICS

Tj=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-emitter sustaining voltage	2N6282	$I_C=0.2A ; I_B=0$	60			V
		2N6283		80			
		2N6284		100			
$V_{CEsat-1}$	Collector-emitter saturation voltage		$I_C=10A ; I_B=40mA$			2.0	V
$V_{CEsat-2}$	Collector-emitter saturation voltage		$I_C=20A ; I_B=200mA$			3.0	V
V_{BEsat}	Base-emitter saturation voltage		$I_C=20A ; I_B=200mA$			4.0	V
V_{BE}	Base-emitter on voltage		$I_C=10A ; V_{CE}=3V$			2.8	V
I_{CEO}	Collector cut-off current	2N6282	$V_{CE}=30V ; I_B=0$			1.0	mA
		2N6283	$V_{CE}=40V ; I_B=0$				
		2N6284	$V_{CE}=50V ; I_B=0$				
I_{CEX}	Collector cut-off current	2N6282	$V_{CE}=60V ; V_{BE}=-1.5V$ $T_C=150$			0.5 5.0	mA
		2N6283	$V_{CE}=80V ; V_{BE}=-1.5V$ $T_C=150$			0.5 5.0	
		2N6284	$V_{CE}=100V ; V_{BE}=-1.5V$ $T_C=150$			0.5 5.0	
I_{EBO}	Emitter cut-off current		$V_{EB}=5V ; I_C=0$			2.0	mA
h_{FE-1}	DC current gain		$I_C=10A ; V_{CE}=3V$	750		18000	
h_{FE-2}	DC current gain		$I_C=20A ; V_{CE}=3V$	100			
C_{OB}	Output capacitance		$I_E=0 ; V_{CB}=10V ; f=1MHz$			400	pF

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PACKAGE OUTLINE

