

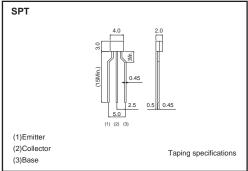
Muting Transistor (15V, 1A)

2SD1468S

Features

- 1) Low saturation voltage, typically $V_{CE(sat)}$ = 0.08V at Ic / IB = 500mA / 500 μ A.
- 2) Ideal for low voltage, high current drives.
- 3) High DC current gain and high current.

●Dimensions (Unit:mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	Vces	15	V
Emitter-base voltage	Vево	5	V
Collector current	Ic	1	A
Collector power dissipation	Pc	0.3	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic=50μA
Collector-emitter breakdown voltage	BVceo	15	_	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	5	-	-	V	Iε=50μA
Collector cutoff current	Ісво	-	-	0.5	μА	Vcb=20V
Emitter cutoff current	Ієво	-	-	0.5	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	VCE(sat)	-	0.08	0.4	V	Ic/I _B =0.5mA/50mA
DC current transfer ratio	hfe	120	-	390	-	Vce/lc=3V/0.1A
Transition frequency	f⊤	50	150	-	MHz	Vc=5V , I=-50mA , f=100MHz
Output capacitance	Cob	_	15	30	pF	Vce=10V , Ie=0A , f=1MHz

●Packaging specifications and hFE

Type	2SD1468S
Package	SPT
hfE	QRS
Code	TP
Basic ordering unit (pieces)	5000

2SD1468S Data Sheet

•Electrical characteristics curves

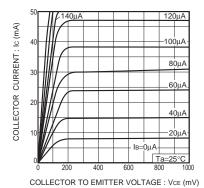


Fig.1 Ground emitter output characteristics

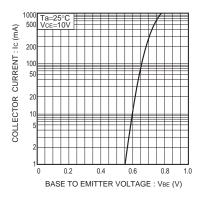


Fig.2 Ground emitter propagation characteristics

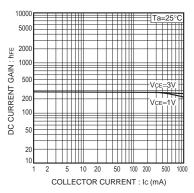


Fig.3 DC current gain vs. collector current

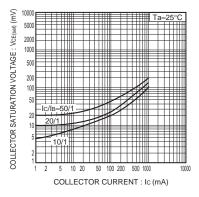


Fig.4 Collector-emitter saturation voltage vs. collector current

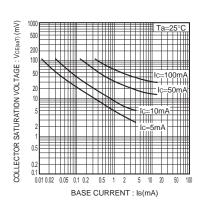


Fig.5 Collector-emitter saturation voltage vs. base current

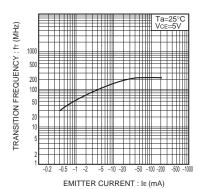


Fig.6 Gain bandwidth product vs. emitter current

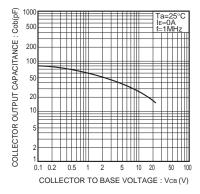


Fig.7 Collector output capacitance vs. collector-base voltage

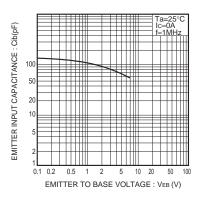


Fig.8 Emitter input capacitance vs. emitter-base voltage

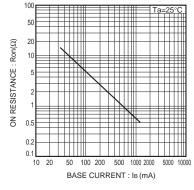


Fig.9 "ON" resistance vs. base current characteristics

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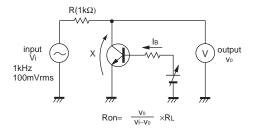


Fig.10 "ON" resistance measurement circuit

Notes

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