# Medium Power Transistor (25V, 1.2A) 2SD2537

## Features

1) High DC current gain.

2) High emitter-base voltage. (VEBO=12V)

3) Low saturation voltage.

(Max. VCE(sat)=0.3V at Ic/IB=500mA/10mA)

#### •Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	Vсво 30		
Collector-emitter voltage	VCEO	o 25 V		
Emitter-base voltage	Vebo	12	V	
Collector current	lc	1.2	A (DC)	
	IC	2	A (Pulse)*1	
Collector power dissipation	Pc	2	W *2	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

\*1 Single pulse Pw=100ms \*2 When mounted on a 40×40×0.7mm ceramic board.

## Packaging specifications and hFE

Туре	2SD2537
Package	MPT3
hfe	VW
Marking	DV*
Code	T100
Basic ordering unit (pieces)	1000

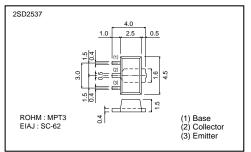
\* Denotes hre

### •Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic=10µA	
Collector-emitter breakdown voltage	BVCEO	25	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	12	-	-	V	Iε=10μA	
Collector cutoff current	Ісво	-	-	0.3	μΑ	Vcb=30V	
Emitter cutoff current	Іево	-	-	0.3	μΑ	VEB=12V	
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/IB=500mA/10mA	*
DC current transfer ratio	hfe	820	-	2700	-	Vce/Ic=5V/0.5A	
Transition frequency	fr	-	200	-	MHz	Vce=10V, Ie=-50mA, f=100MHz	*
Output capacitance	Cob	-	20	-	pF	Vcb=10V, IE=0A, f=1MHz	

\*Measured using pulse current.

# •External dimensions (Units : mm)



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