

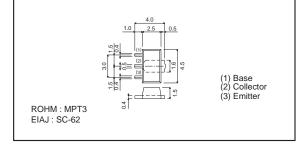
High gain amplifier transistor (25V, 2A) 2SD2153

Features

1) Low saturation voltage,

- typically VCE(sat) = 0.12V at Ic = IB = 1A / 20mA
- 2) Excellent DC current gain characteristics.

•Dimensions (Unit : mm)



•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	Vceo	25	V
Emitter-base voltage	Vebo	6	V
Collector current	lc	2	A(DC)
Collector current	IC	3	A(Pulse) *1
Collector newer dissinction	Pc	0.5	w
Collector power dissipation	PC	2 *2	1 **
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

*1 Single pulse, Pw=10ms *2 Mounted on a 40 × 40 × ¹0.7mm Ceramic substrate

•Packaging specifications and hFE

Туре	2SD2153
Package	MPT3
hfe	UVW
Marking	DN *
Code	T100
Basic ordering unit (pieces)	1000

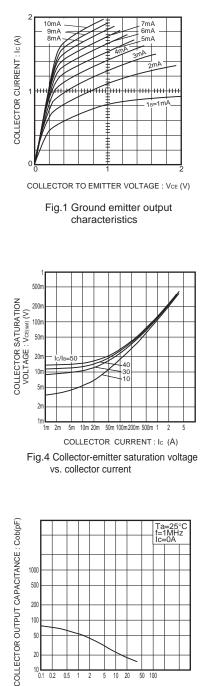
* Denotes hre

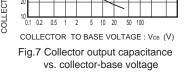
•Electrical characteristics (Ta=25°C)

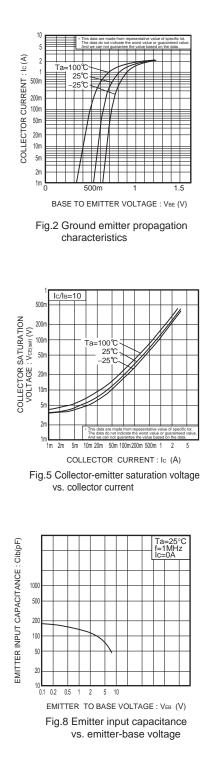
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	25	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	6	-	-	V	IE=50μA	
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb=20V	
Emitter cutoff current	Іево	-	-	0.5	μΑ	VEB=5V	
Collector-emitter saturation voltage	VCE(sat)	-	0.12	0.5	V	Ic/IB=1A/20mA	*
DC current transfer ratio	hfe	820	-	1800	-	Vce/lc=6V/0.5A	
Transition frequency	fт	-	110	-	MHz	Vce=10V, le=-10mA, f= 100MHz	
Output capacitance	Cob	-	22	-	pF	Vcb=10V, IE=0A, f=1MHz	

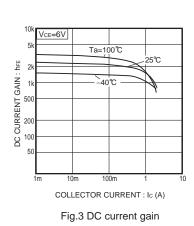
* Measured using pulse current.

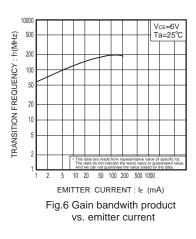
•Electrical characteristics curves

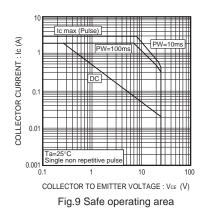












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