

2SD2662

NPN 1.5A 30V Middle Power Transistor

				●Outline			
Parameter	Val	ue		MPT3			
V _{CEO}	30	V		Daga			
Ι _C	1.5	5A		Base Collector	\sim		
				Emitt	er		
●Features					2662		
1) Suitable for Middl	le Power Driv	er			5-62) T-89>		
2) Complementary F							
3) Low V _{CE(sat)}							
V _{CE(sat)} =0.35V(Ma	ax.)						
$(I_C/I_B=1A/50mA)$							
4) Lead Free/RoHS	Compliant.						
						6	
●Inner circuit							
Collector				 Application 			
					r , LED drive	er	
	- ^o Base			Power supp	лу		
ļ					·		
Emitter							
Packaging specif	ications						
		Package	Taping	Reel size	Tape width	Basic	
Part No.	Package	size	code	(mm)	(mm)	ordering	Marking
		(mm)				unit (pcs)	
2SD2662	MPT3	4540	T100	180	12	1,000	FZ
2SD2662							

•Absolute maximum ratings (Ta = 25°C)

Parameter		Symbol	Values	Unit
Collector-base voltage		V _{CBO}	30	V
Collector-emitter voltage		V _{CEO}	30	V
Emitter-base voltage		V _{EBO}	6	V
Collector current	DC	I _C	1.5	А
	Pulsed	Ι _{CP} ^{*1}	3.0	A
		P _D ^{*2}	0.5	W
Power dissipation		P _D ^{*3}	2.0	
Junction temperature		Т _ј	150	°C
Range of storage temperature		T _{stg}	-55 to +150	°C

•Electrical characteristics (Ta = 25°C)

 *1 Pw=1ms , single pulse *2 Each terminal mounted or *3 Mounted on a ceramic box 				C		
•Electrical characteristics (Ta	,					
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Collector-emitter breakdown voltage	BV_{CEO}	I _C = 1mA	30	-	-	V
Collector-base breakdown voltage	ВV _{сво}	I _C = 10μΑ	30	-	-	V
Emitter-base breakdown voltage	BV _{EBO}	I _E = 10μA	6	-	-	V
Collector cut-off current	I _{CBO}	V _{CB} = 30V	-	-	100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 6V	-	-	100	nA
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 1$ A, $I_{\rm B} = 50$ mA	-	160	350	mV
DC current gain	h _{FE}	V _{CE} = 2V, I _C = 100mA	270	-	680	-
Transition frequency	f _T	V _{CE} = 2V, I _E = -100mA f=100MH _Z	-	330	-	MHz
Output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0A f = 1MHz	-	11	-	pF

●Electrical characteristic curves(Ta = 25°C)

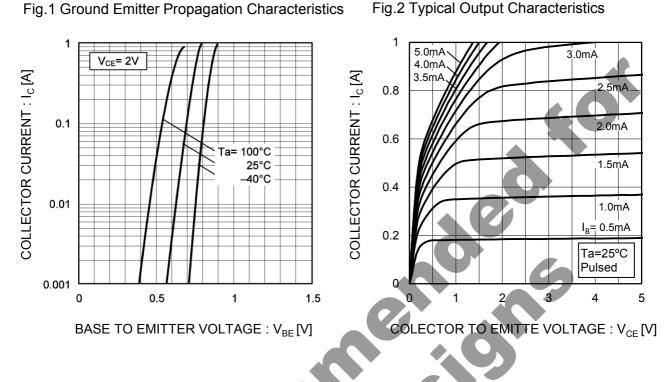
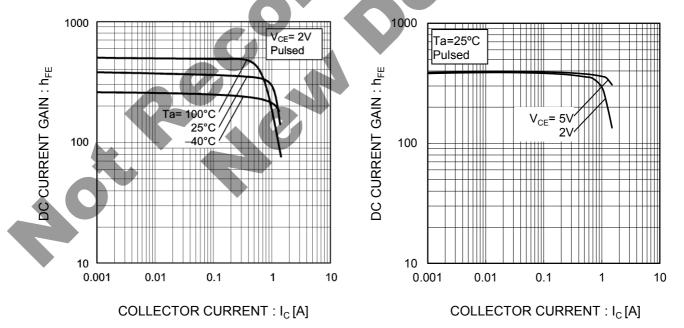
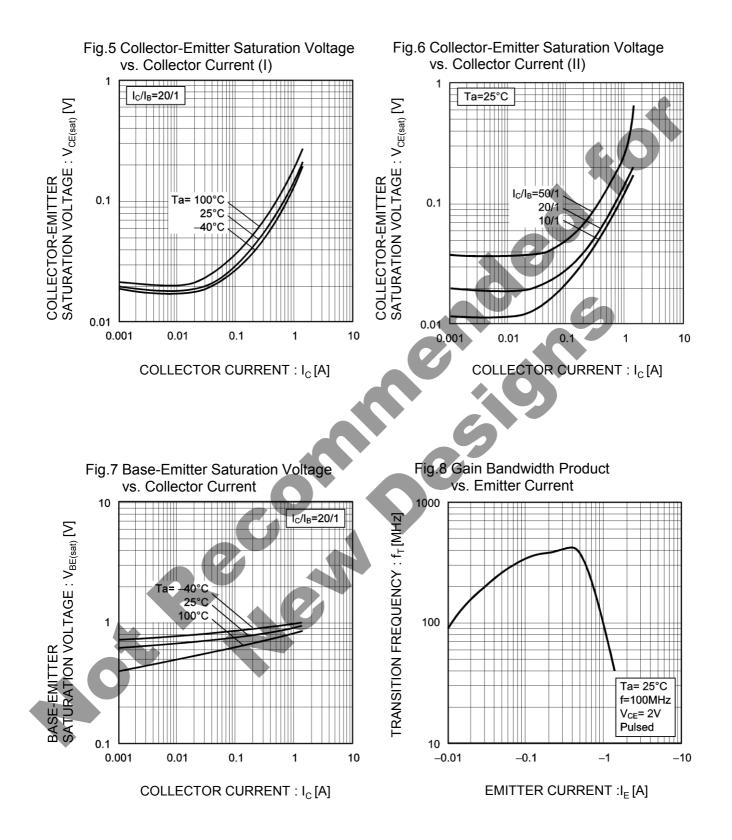


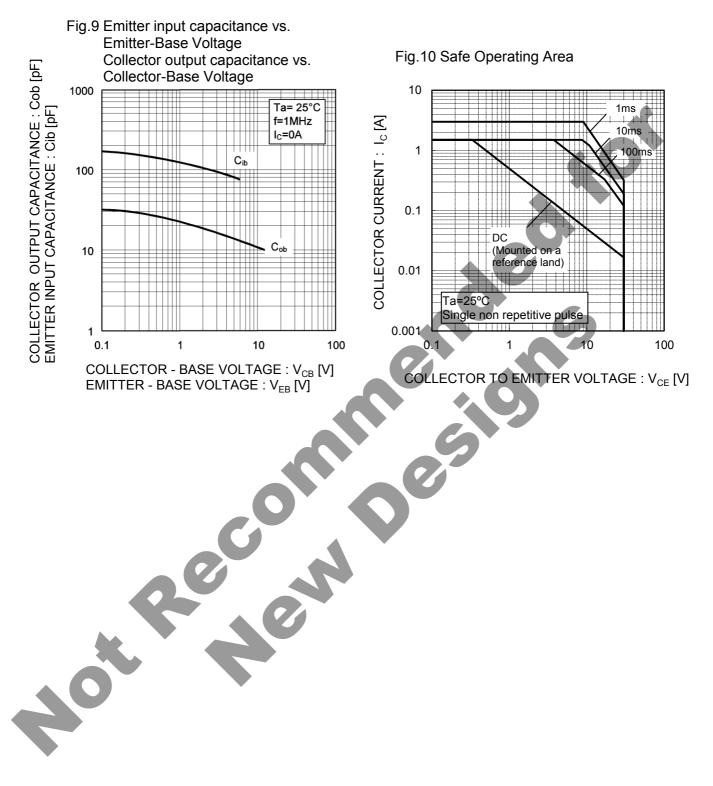
Fig.1 Ground Emitter Propagation Characteristics

Fig.4 DC Current Gain vs. Collector Current(II) Fig.3 DC Current Gain vs. Collector Current(I)



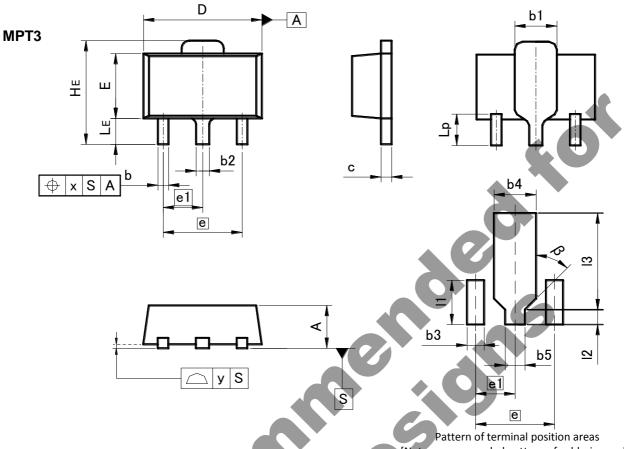
•Electrical characteristic curves(Ta = 25°C)





•Electrical characteristic curves(Ta = 25°C)

•Dimensions (Unit : mm)



[Not a recommended pattern of soldering pads]

DIM	MILIM	TERS	INC	HES
DIM	MIN	MAX	MIN	MAX
A	1.40	1.50	0.055	0.059
b	0.30	0.50	0.012	0.020
b1	1.50	1.70	0.059	0.067
b2	0.40	0.60	0.016	0.024
C	0.35	0.50	0.014	0.020
D	4.40	4.70	0.173	0.185
E	2.40	2.70	0.094	0.106
e	3.0	00	0.1	18
e1		50	0.0	59
HE	3.70	4.30	0.146	0.169
LE	0.80	1.20	0.031	0.047
Lp	1.01	1.41	0.040	0.056
x	_	0.15	_	0.006
У	_	0.10	_	0.004
DIM	MILIM	ETERS	INC	HES
	MIN	MAX	MIN	MAX
1.0				

DIM	MILIM	ETERS	INCHES		
DIM	MIN	MAX	MIN	MAX	
b3	-	0.65	-	0.026	
b4	-	1.70	-	0.067	
b5	-	0.75	-	0.030	
1	-	1.71	-	0.067	
12	-	0.58	-	0.023	
13	_	3.72	_	0.146	
β	45	45°		0	

Dimension in mm / inches

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