Power Transistor (80V, 0.3A) 2SC3359S

● Features

- 1) High breakdown voltage, BV_{CEO}=80V
- 2) Low saturation voltage, typically $V_{\text{CE(sat)}} = 0.2 \text{V}$ at $I_{\text{B}} = 0.3 \text{A} \, / \, 0.03 \text{A}$

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CBO}	80	V
Collector-emitter voltage	V _{CEO}	80	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _c	0.3	А
Collector power dissipation	Pc	0.3	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV _{CEO}	80	_	_	V	I _C =1mA
Collector-base breakdown voltage	BV _{CBO}	80	_	_	V	I _C =50μA
Emitter-base breakdown voltage	BV _{EBO}	5	_	_	V	I _E =50μA
Collector outoff current	I _{CBO}	_	_	0.5	μΑ	V _{CB} =80V
Emitter outoff current	I _{EBO}	_	_	0.5	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	V _{CE(sat)}	_	0.2	0.5	V	V _C /I _{CB} =0.3V/0.03A
DC current transfer ratio	h _{FE}	120	_	390	_	V _{CE} =3V, I _C =0.1A
Transition frequency	f _T	50	150	_	MHz	V _{CE} =5V , I _E =-0.01A , f=100MHz
Output capacitance	Cob	_	5	8	pF	V _{CB} =10V , I _E =0A , f=1MHz

●Packaging specification and h_{FE}

Туре	2SC3359S		
Package	SPT		
h _{FE}	QR		
Code	TP		
Basic orderin unit (pieces)	5000		

Electrical characteristic curves

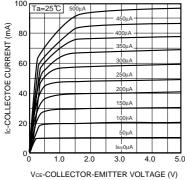


Fig.1 Typical output characteristics

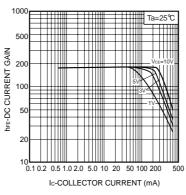


Fig.2 DC current gain vs. collector current

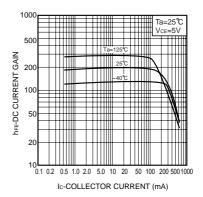


Fig.3 DC current gain vs. collector current

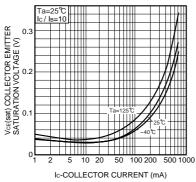


Fig.4 Collector emitter saturation voltage vs. collector current

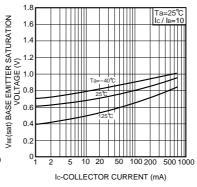


Fig.5 Base emitter saturation voltage vs. collector current

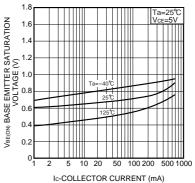


Fig.6 Base emitter 'ON' voltage vs. collector ccurrent

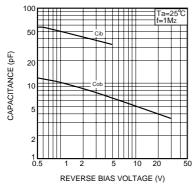


Fig.7 Capacitance vs. reverse bias voltage

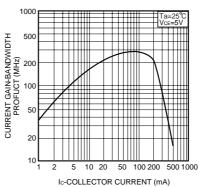


Fig.8 Current gain-bandwidth product vs. collector current

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