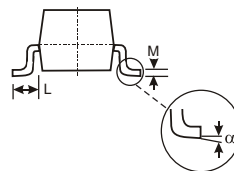
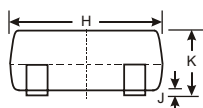
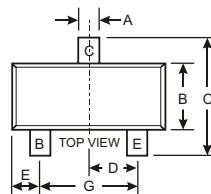


Features

- High current output up to 3A
- Low saturation voltage
- Complement to D882SS

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-40	V
Collector-Emitter Voltage		V_{CEO}	-30	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	Pulse	I_{cp}	-7	A
	DC	I_c	-3	A
Base Current		I_B	-0.6	A
Collector Dissipation	$T_C=25^\circ\text{C}$	P_D	10	W
	$T_A=25^\circ\text{C}$		350	mW
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature		T_{STG}	-55 ~ +150	$^\circ\text{C}$



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

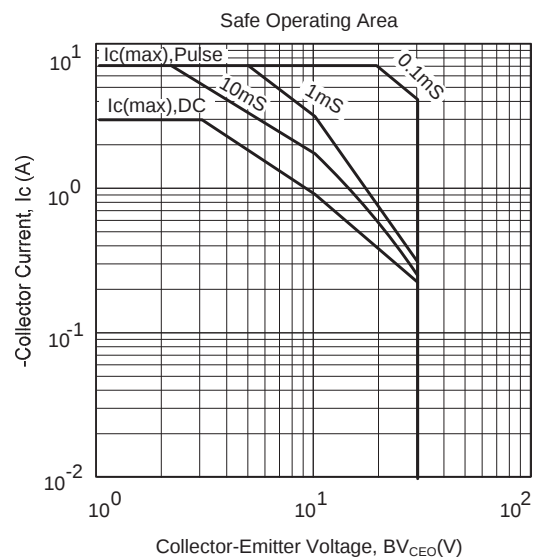
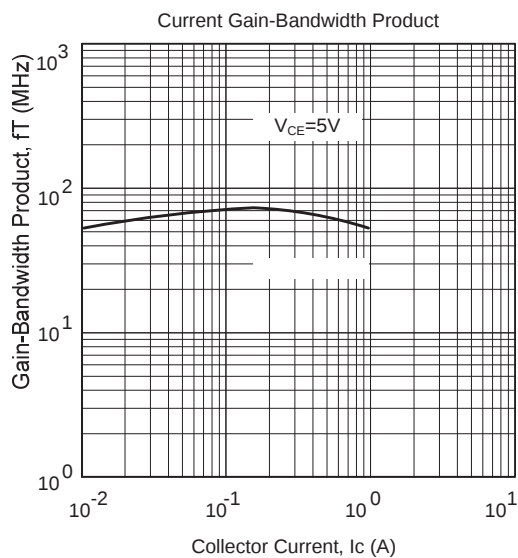
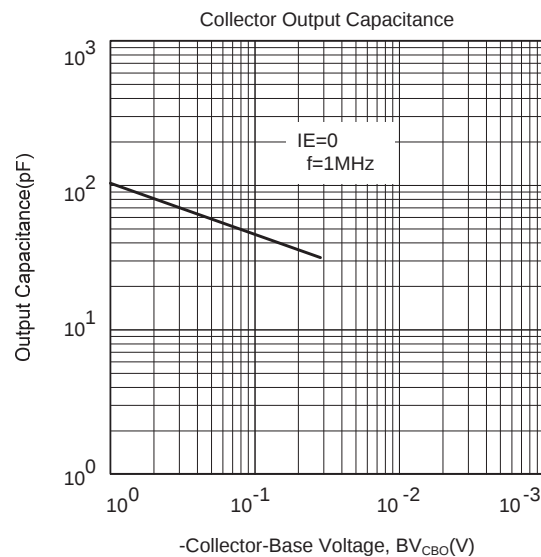
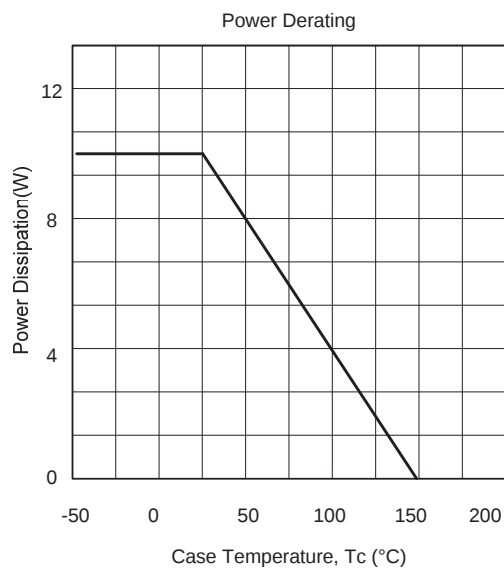
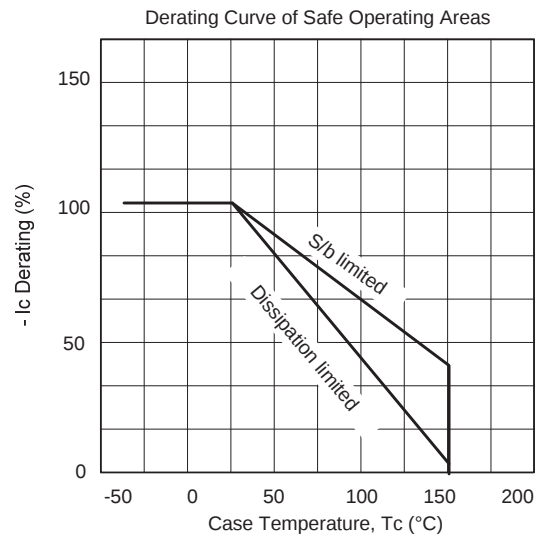
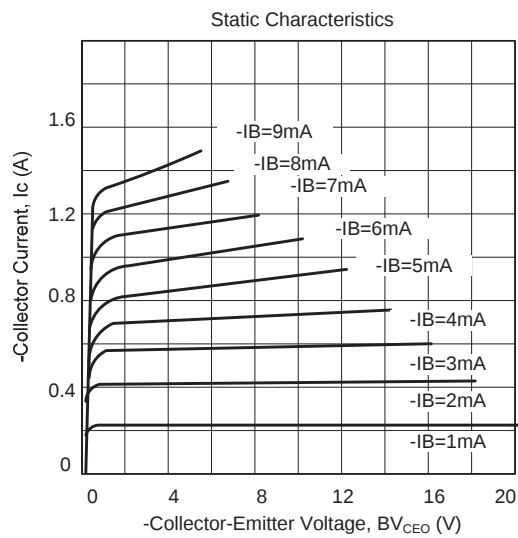
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_c=-100\mu\text{A}, I_E=0$	-40			V
Collector-emitter breakdown voltage	V_{CEO}	$I_c=-1\text{mA}, I_B=0$	-30			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=-100\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-30\text{V}, I_E=0$			-1	μA
Collector cut-off current	I_{CEO}	$V_{CB}=-30\text{V}, I_B=0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-3\text{V}, I_C=0$			-1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-2\text{V}, I_C=-20\text{mA}$	30	200		
	$h_{FE(2)}$	$V_{CE}=-2\text{V}, I_C=-1\text{A}$	100	150	400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-2\text{V}, I_B=-0.2\text{A}$		-0.3	-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-2\text{V}, I_B=-0.2\text{A}$		-1.0	-2.0	V
Collector capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$		45		pF
Transition frequency	f_T	$V_{CE}=-5\text{V}, I_C=-0.1\text{A}$		80		MHz

Note: Pulse test: $P_W < 300\mu\text{s}$, Duty Cycle $< 2\%$

CLASSIFICATION OF $h_{FE(1)}$

Rank	Q	P	E
Range	100-200	160-320	200-400

TYPICAL TRANSIENT CHARACTERISTICS



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