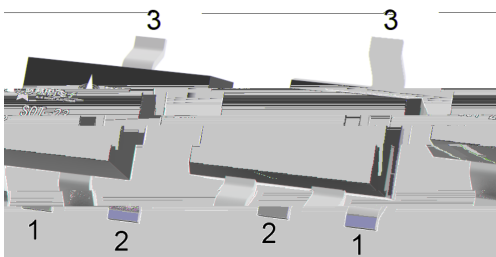
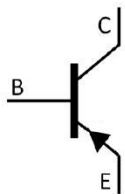


9 5 : . > // x 6 4 6 ! - } â ' ož Silicon PNP transistor in a SOT-23 Plastic Package.

(8 9 3 7 ; m k ... ` ' +) 7 ö Ö ä U ´ Å } L k —) í D } ož
Complementary pair with BRS8050MQ, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

9 ä y Ý è k á V ñ • } Lož
Power amplifier applications, Meet the stringent requirements of automotive applications.



PIN1 y 63.5786.3803

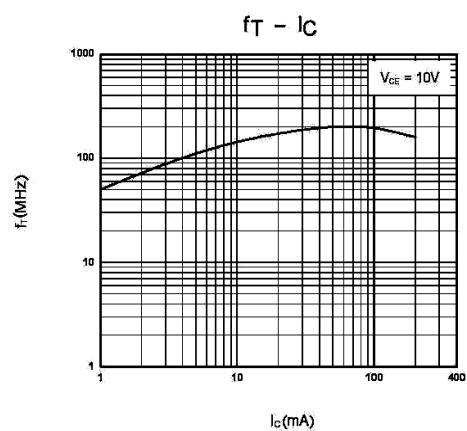
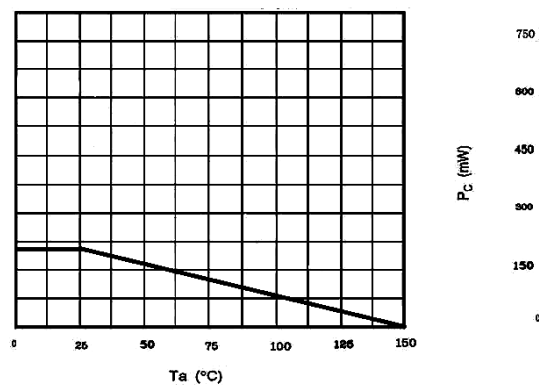
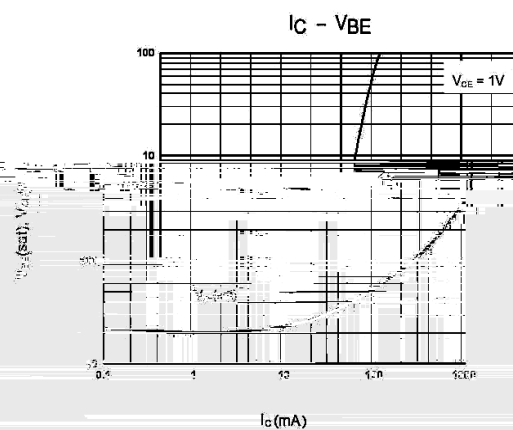
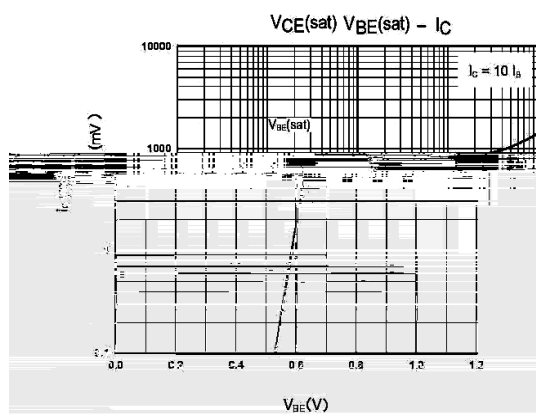
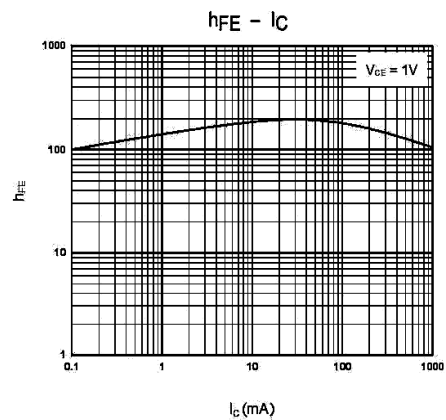
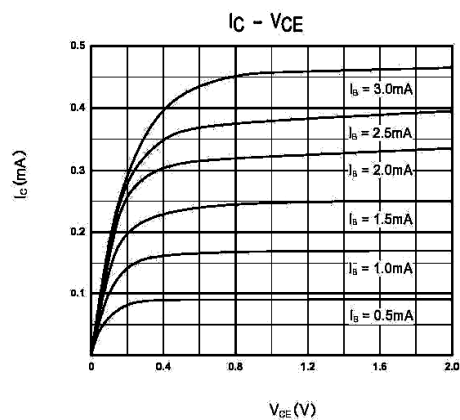
Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Collector to Base Voltage	V _{CBO}	-40	V
Collector to Emitter Voltage	V _{CEO}	-25	V
Emitter to Base Voltage	V _{EBO}	-6.0	V
Collector Current	I _C	-800	mA
Base Current	I _B	-200	mA
Collector Power Dissipation	P _C	200	mW
Junction Temperature	T _j	150	
Storage Temperature Range	T _{stg}	-65 150	

Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =-0.1mA I _E =0	-40			V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =-2.0mA I _B =0	-25			V
Emitter to Base Breakdown Voltage	V _{EBO}	I _E =-0.1mA I _C =0	-6.0			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-35V I _E =0			-0.1	A
Emitter Cut-Off Current	I _{EBO}	V _{EB} =-6.0V I _C =0			-0.1	A
DC Current Gain	h _{FE(1)}	V _{CE} =-1.0V I _C =-100mA	85		300	
	h _{FE(2)}	V _{CE} =-1.0V I _C =-500mA	40			
	h _{FE(3)}	V _{CE} =-1.0V I _C =-5.0mA	45			
Collector-emitter Saturation Voltage	V _{CE(sat)}	I _C =-500mA I _B =-50mA		-0.28	-0.6	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500mA I _B =-50mA		-0.98	-1.2	V
Base-Emitter Voltage	V _{BE}	V _{CE} =-1.0V I _C =-10mA		-0.66	-1.0	V
Transition Frequency	f _T	V _{CE} =-10V I _C =-50mA	100	200		MHz
Collector Output Capacitance	C _{ob}	V _{CB} =-10V I _E =0 f=1.0MHz		15		pF

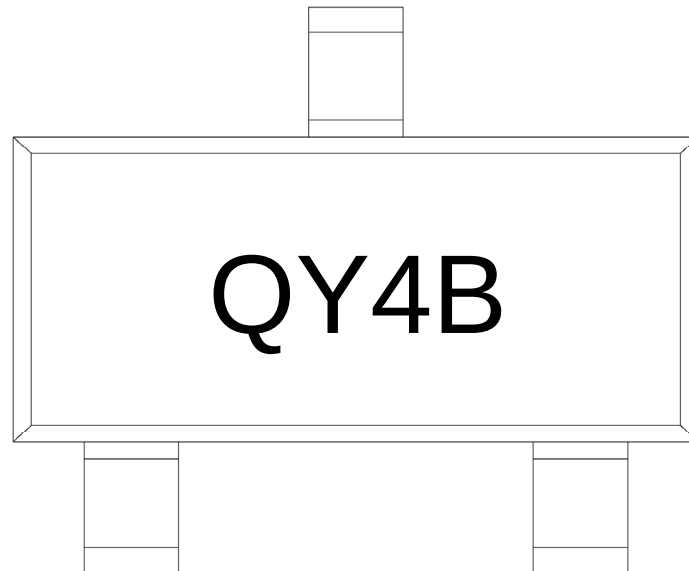
Electrical Characteristic Curve



BRS8550MQ
Rev.C Mar.-2023

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, M y f / Marking Instructions



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Q y V ñ —) í D } ö œ

? y ° Z W A

(y N, +) W A

Note:

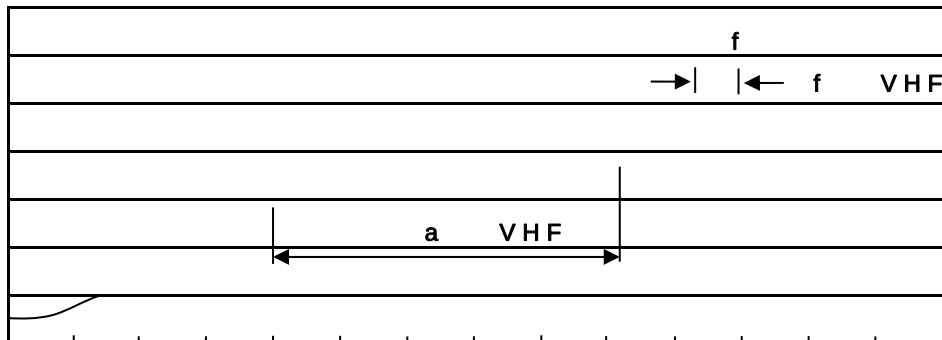
Q: Automobile halogen-free product Code

? y Product Type Code

(y h_{FE} Classifications Symbol Code

šWD t... • Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HP SHU DWXUH



7LPH VHF

^ačy

Note:

- 1o• Ä ½ “† 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.
2o• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
3o•D N ò i Ò 0 , † 2 ½10 - /sec. 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p⁻ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit /mm ³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-23	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„Đ y f / Notices