BRBSS84Q

Rev.A Mar.-2023

SOT-23 ṂṂ ե P ڒ ʆ ῷ Ẕ ᘁ
P-CHANNEL MOSFET in a SOT-23 Plastic Package.

Ḩ Ȁ ᵏ ͻ я ɩ F0PRV ⁼ WWO Ӌ ͻ ٹ￼΄ ȉ ȉ ᴭ ɩ Ȁ ҥ ھ ẙ ȍ ɩ گ ؎ ͻ ȋ ˥ 4333Y ɩ ׀ ᵀ DHF0T434
‰΄ ڪ ˡ ، ớ ɭ ∂ ɩ ῆ ғ ᵝ
Low threshold voltage, Direct interface to C-MOS, TTL etc, High-speed switching,ESD Improved

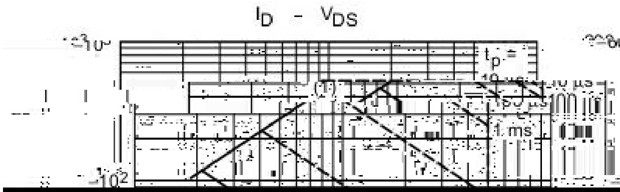
v Ὼ Parameter	ˠ ᴺ Symbol	Ὼ Ӫ Rating	ᴅ Ḫ Unit
Drain-Source Voltage	V_{DSS}	-50	V
Drain Current – Continuous	I_D	-130	mA
Peak Drain Current	I_{DM}	-520	mA
Gate-Source Voltage	V_{GSS}	±20	V
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	500	/W
Storage Temperature Range	T_{stg}	-65 to 150	
Junction Temperature Range	T_j	150	

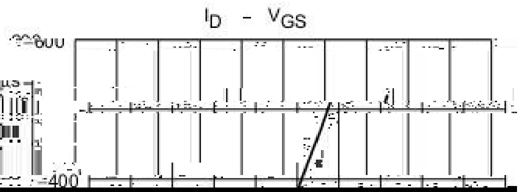
v Ὼ Parameter	ˠ ᴺ Symbol	╜ ፧ ꞇ Test Conditions	ῳ ṇ Ӫ Min	Ɛ ʒ Ӫ Typ	ῳ ᶾ Ӫ Max	ᴅ Ḫ Unit
Drain–Source Breakdown Voltage	V_{DSS}	V_{GS}=0V I_D=-10μA	-50			V
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=-250μA	-0.8		-2.0	V
Zero Gate Voltage Drain Current	I_{DSS}	V_{GS}=0V V_{DS}=-40V			-100	nA
		V_{GS}=0V V_{DS}[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

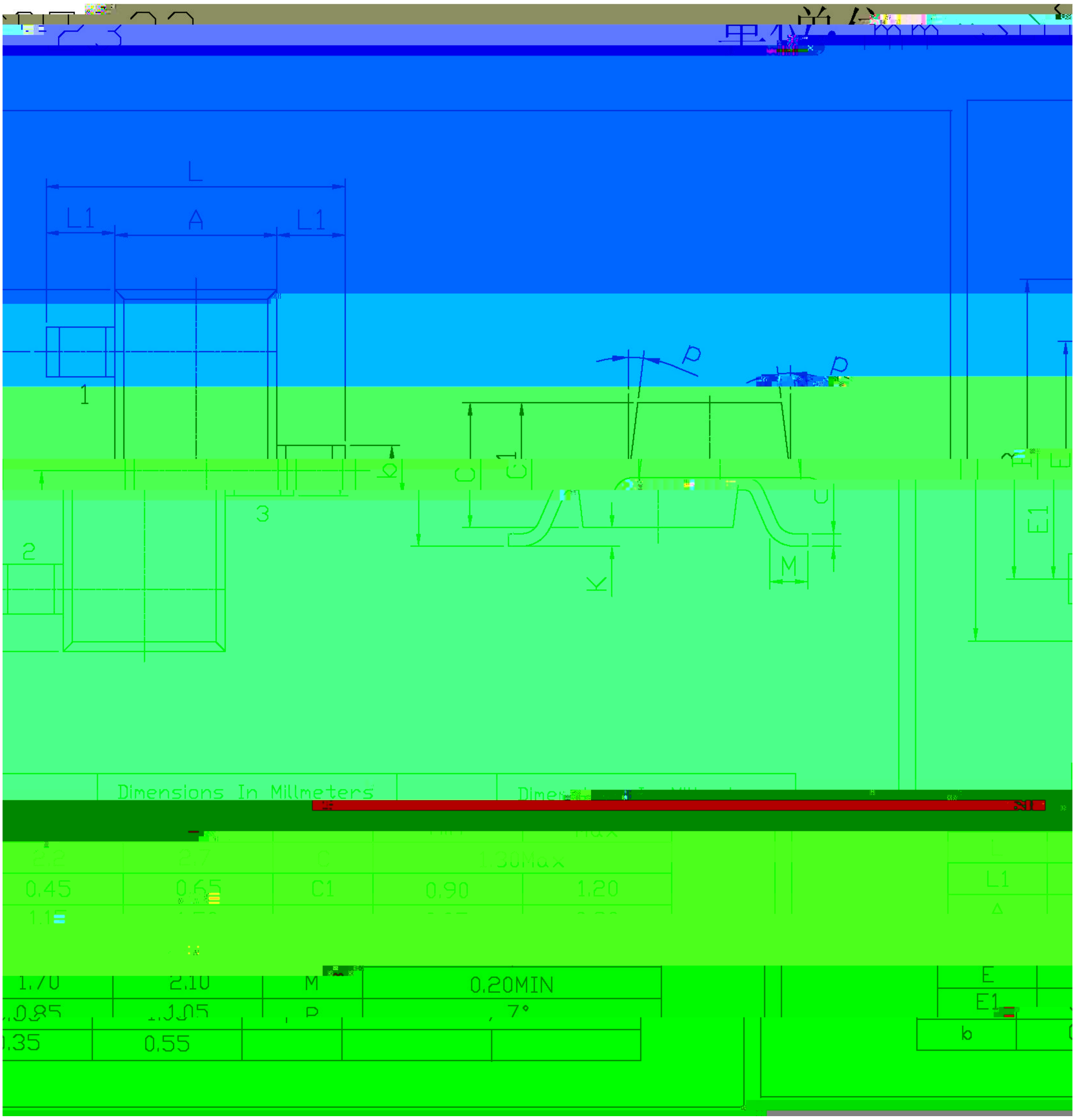
/ Electrical Characteristic Curve



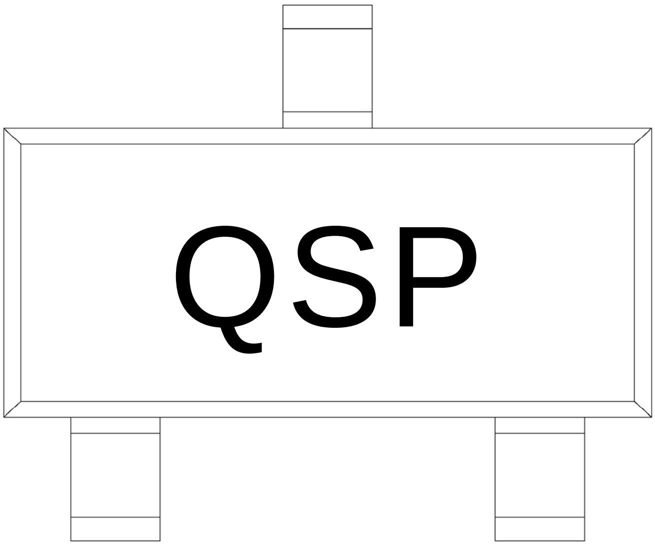


[redacted]

/ Package Dimensions



/ Marking Instructions



ب ˝ χ

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SP χ ꟿ ʒ ᴺ Ҧ

Note:

Q: Automobile halogen-free product Code

SP: Product Type.

(   ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

ب ˝ χ	Note:
1 ĺ ♬ □ ẙ 150 Ḱ 200 ɫ ı ̀H ڙ 60 Ḱ 120sec;	1.Preheating:150~200 ɫ , Time:60~120sec.
2 Ś Ӫ □ ẙ 255 ° 5 ɫ ı ̀H ڙ ʿY ሳ ㅒ 5 ° 0.5sec;	2.Peak Temp.:255 ° 5 ɫ , Duration:5 ° 0.5sec.
3 ì ˙ ᛉ ˛ ɔ ฿ ẙ ㅒ 2 Ḱ 10 ɫ /sec.	3.Cooling Speed: 2~10 ɫ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ẙ χ 260 ° 5 ɫ ̀H ڙ χ 10 ° 1 sec. Temp.:260 ° 5 ɫ Time:10 ° 1 sec

/ Packaging SPEC.

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Package Type