

BRBS84Q

Rev.A Mar.-2023



BLUE ROCKET ELECTRONICS

SOT-23 M M L P 5 6 7 8 9

P-CHANNEL MOSFET in a SOT-23 Plastic Package.

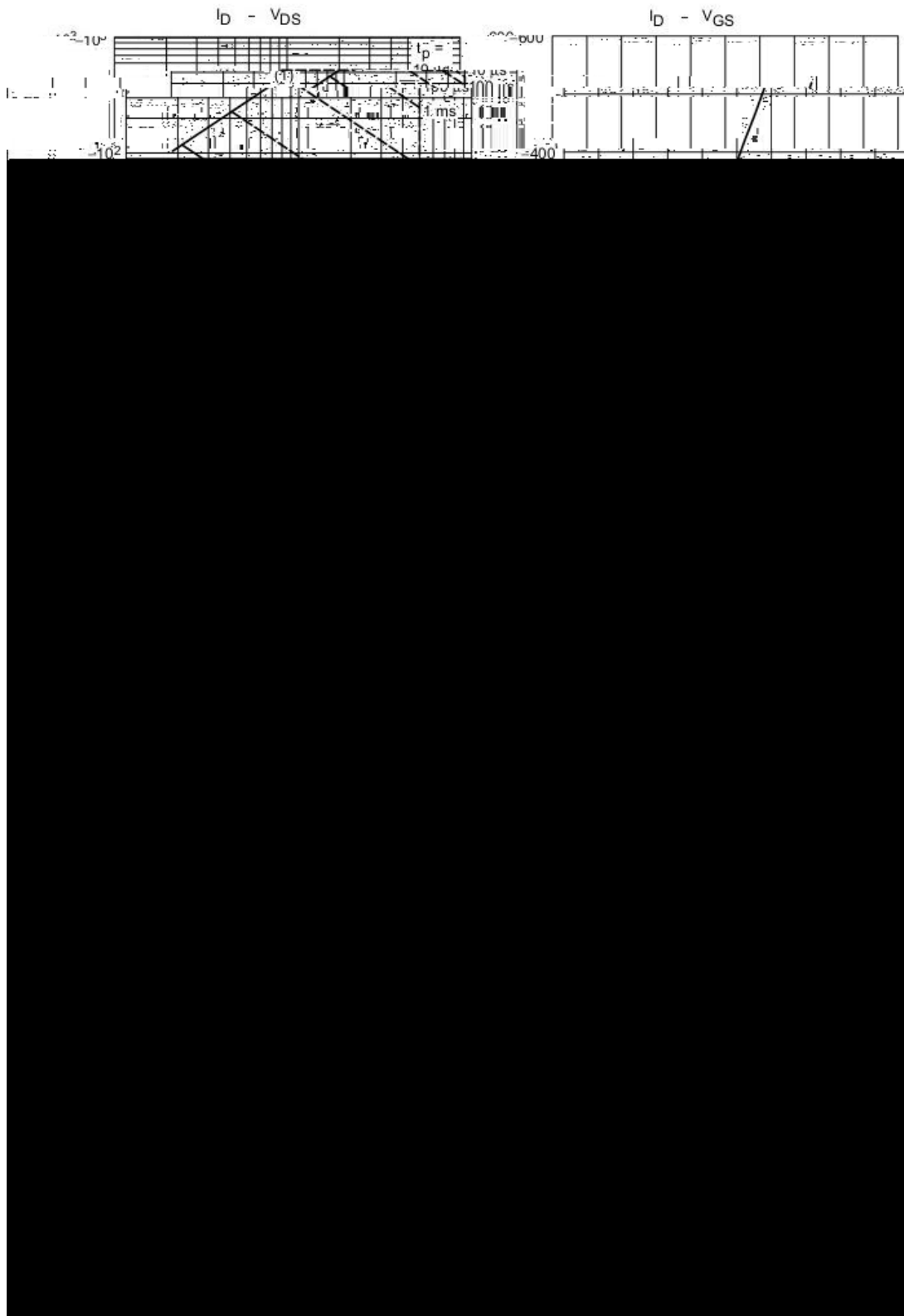
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Low threshold voltage, Direct interface to C-MOS, TTL etc, High-speed switching,ESD Improved

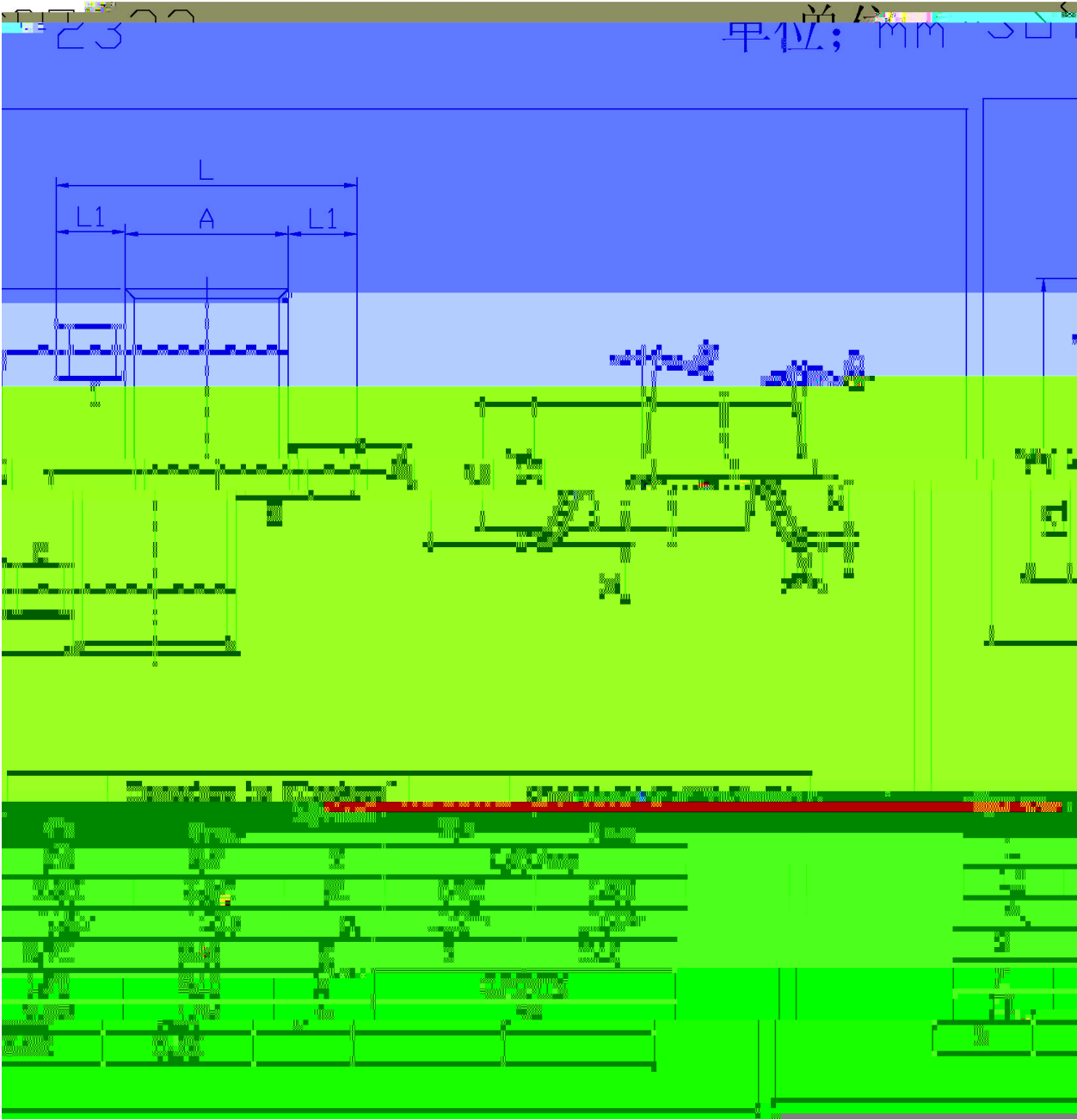
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	-50	V
Drain Current – Continuous	I_D	-130	mA
Peak Drain Current	I_{DM}	-520	mA
Gate-Source Voltage	V_{GSS}	± 20	V
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	500	/W
Storage Temperature Range	T_{stg}	-65 to 150	
Junction Temperature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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	V_{DSS}	$V_{GS}=0V$ $I_D=-10\mu A$	-50			V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250\mu A$	-0.8		-2.0	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{GS}=0V$ $V_{DS}=-40V$			-100	nA
		$V_{GS}=0V$ $V_{DS}=-50V$			-10	μA 2D

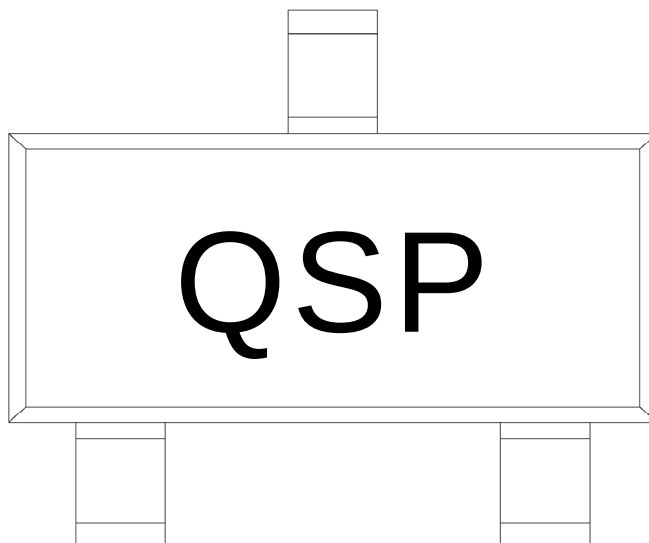
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



QSP

T X 100% 100%

SP X 100% 100%

Note:

Q: Automobile halogen-free product Code

SP: Product Type.

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

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Note:

1 ஸ ஸ 150 K 200 ட ஸ ஸ 60 K 120sec;

1.Preheating:150~200 ட , Time:60~120sec.

2 ஸ ஸ 255 ° 5 ட ஸ ஸ 'Y ஸ ஸ 5 ° 0.5sec;

2.Peak Temp.:255 ° 5 ட , Duration:5 ° 0.5sec.

3 ஸ ஸ ஸ ஸ 2 K 10 ட /sec.

3.Cooling Speed: 2~10 ட /sec.

/ Resistance to Soldering Heat Test Conditions

ஸ ஸ 260 ° 5 ட ஸ ஸ 10 ° 1 sec.

Temp.:260 ° 5 ட

Time:10 ° 1 sec

/ Packaging SPEC.

ஸ ஸ ஸ / REEL

Package Type