

SOT-23 M M P $\int \tilde{\omega} \underline{z} \cdot 1$

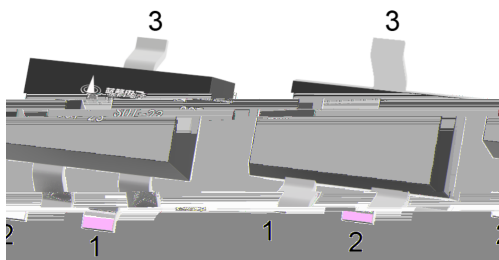
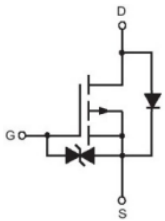
P-CHANNEL MOSFET in a SOT-23 Plastic Package.

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%o' ̂ ̂ ̂ ̂ ̂ ̂ ̂ ̂

Low threshold voltage, Direct interface to C-MOS, TTL etc, High-speed switching,ESD Improved Capability 1000V, high current, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

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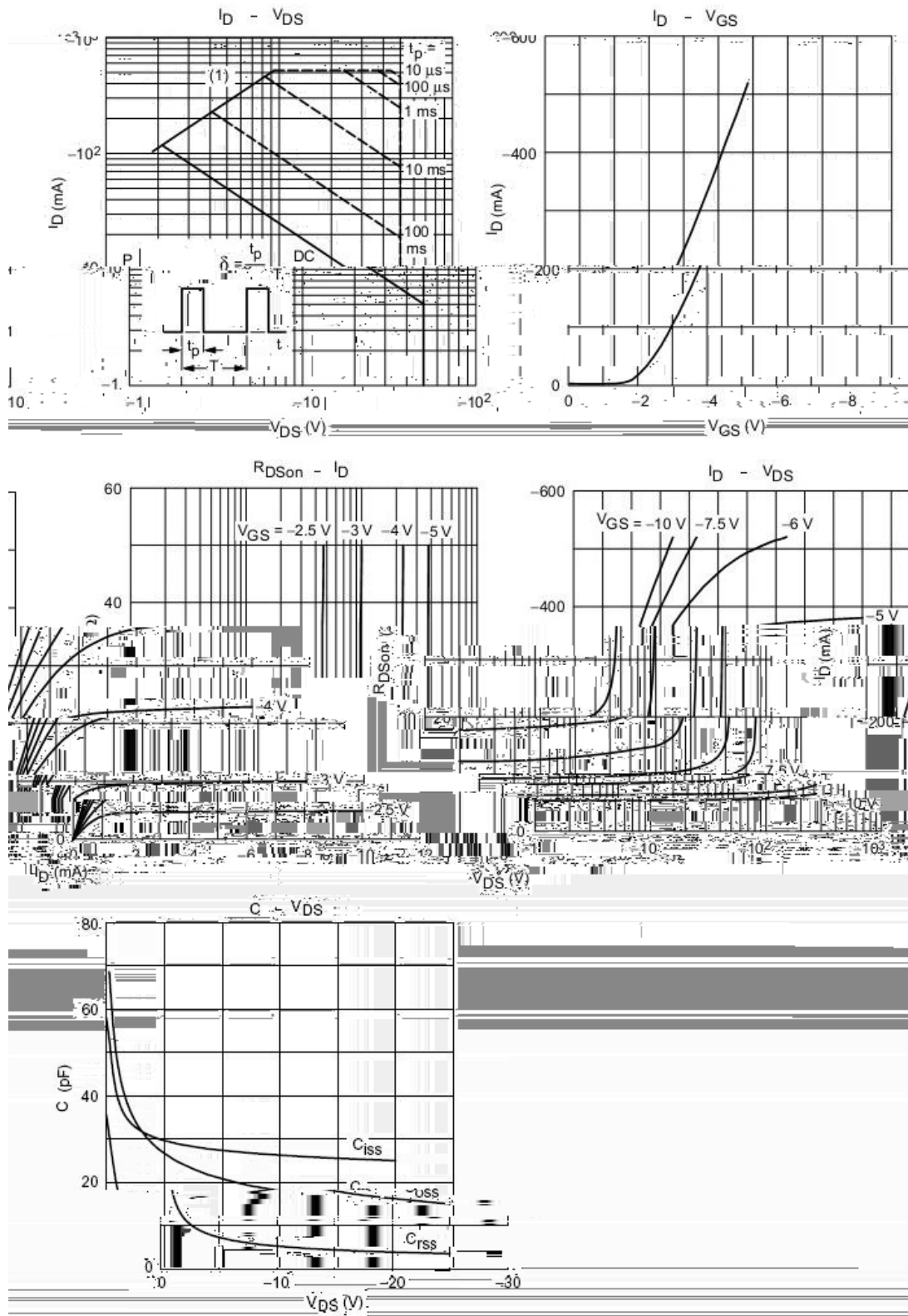
Line current interrupter in telephone sets, Relay, High speed and line transformer drivers, Meet the stringent requirements of automotive applications.

PIN1 $\times$ GPIN 2 χ SPIN 3 χ D

Marking	QSP
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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	

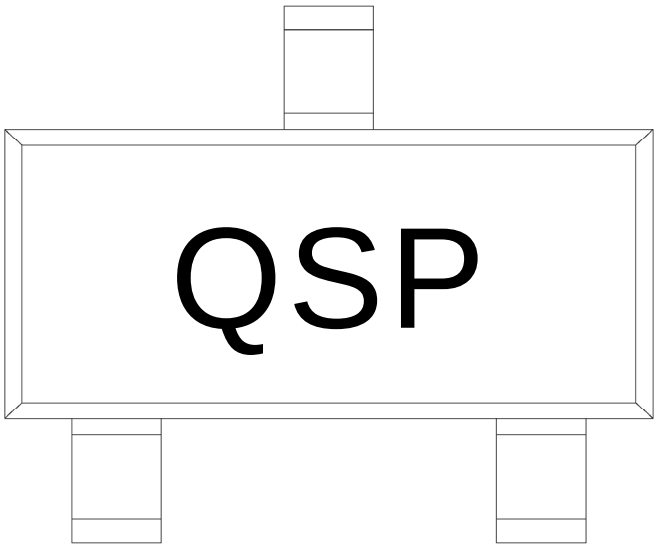
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	V_{DSS}	$V_{GS}=0V$ $I_D=-10\mu A$	-50			V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250\mu A$	-0.8		-2.0	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{GS}=0V$ $V_{DS}=-40V$			-100	nA
		$V_{GS}=0V$ $V_{DS}=-50V$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



SOT-23

单位: mm

						
	Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
		Min	Max		Min	Max
	L	2.2	2.7	C	1.30Max	
	L1	0.45	0.65	C1	0.90	1.20
	A	1.15	1.50	e	0.05	0.20
	B	2.70	3.40	K	0	0.10
	E	1.70	2.10	M	0.20MIN	
	E1	0.85	1.05	P	7°	
	b	0.35	0.55			



- ” X
- T X Ƨ Ƨ Ƨ Ƨ Ƨ %
- SP X Ƨ Ƨ Ƨ Ƨ
- Note:
- Q: Automobile halogen-free product Code
- SP: Product Type.

Temperature Profile for IR Reflow Soldering(Pb-Free)

- ” X
- 1 150~200 ℃ 60~120sec;

2 255±5 ℃ 5~0.5sec;

3 2~10 ℃/sec.
- Note:
- 1.Preheating:150~200 ℃ , Time:60~120sec.

2.Peak Temp.:255±5 ℃ , Duration:5~0.5sec.

3.Cooling Speed: 2~10 ℃ /sec.

±260 ℃ ±10 ℃ 1 sec.

Temp.:260±5 ℃

Time:10±1 sec

/ REEL

Package Type