

/ Descriptions

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

/ Features

F0 P RV WWO

4333Y

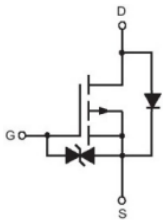
DHF0T434

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.

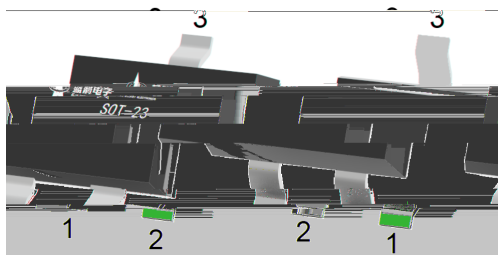
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 S PIN 3 D

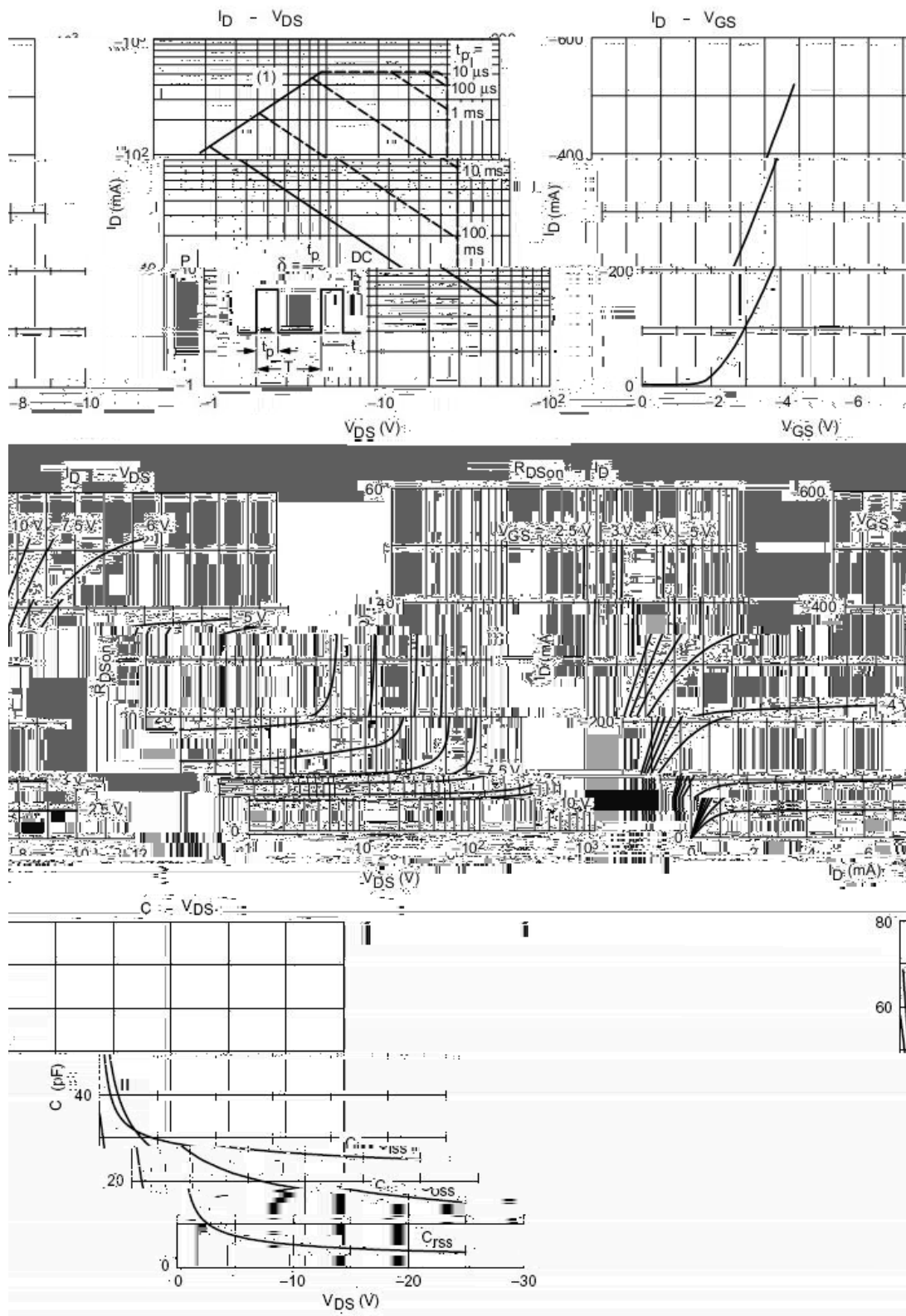
/ Marking

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

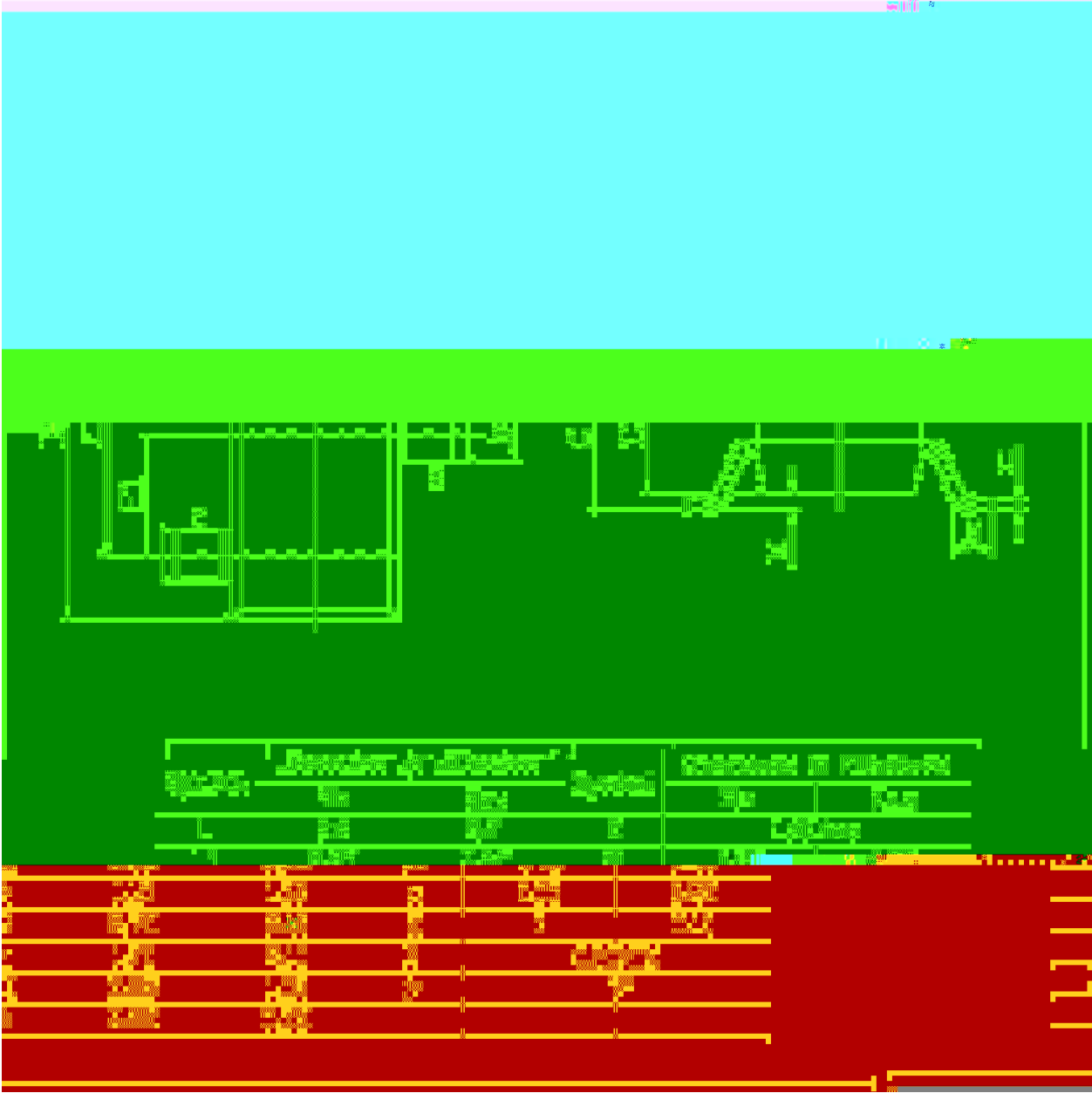
/ Electrical Characteristic Curve



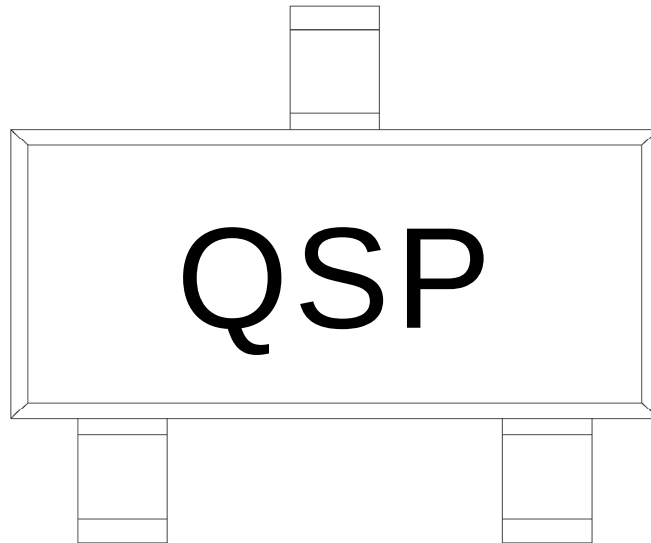
/ Package Dimensions

尺寸图

单位: mm



/ Marking Instructions



T

SP

Note:

Q: Automobile halogen-free product Code

SP: Product Type.

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Note:

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|---|------------|-------------|---|
| 1 | 150 200‰ | 60 120sec; | 1.Preheating:150~200‰, Time:60~120sec. |
| 2 | 255 ± 5‰ | 5 ± 0.5sec; | 2.Peak Temp.:255 ± 5‰, Duration:5 ± 0.5sec. |
| 3 | 2 10‰/sec. | | 3.Cooling Speed: 2~10‰/sec. |

/ Resistance to Soldering Heat Test Conditions

260 ± 5‰	10 ± 1 sec.	Temp.:260 ± 5‰	Time:10 ± 1 sec
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/ Packaging SPEC.

/ REEL

Package Type