

5 é / Descriptions

TO-252 .> // x 6 ?ú 3 « | • 'ož

P-CHANNEL MOSFET in a TO-252 Plastic Package.

α a / Features

 $V_{DS} (V) = -60V$ $I_D = -20A$ ($V_{GS} = f$ 20V) $R_{DS(ON)}@-10V$ 0 S S : _ V S S

8*9 54 & < ‡ S S : _ V S S

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Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

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Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products, Meet the stringent requirements of automotive applications.

Ã W] Ô · / Equivalent Circuit

• Ũ - æ / Pinning

PIN1 y G

PIN 2 y D

PIN 3 y S

PIN 4 y D

, M V / Marking

• - ~ a ¢ ož

See Marking Instructions.

@ f Parameter	... Z Symbol	$f >$ Rating	% y Unit
Drain-Source Voltage	V_{DSS}	-60	V
Gate-Source Voltage	V_{GSS}	± 20	V
Continuous Drain Current	$I_D (T_I=25^{\circ}\text{C})$	-20	A
Pulsed Drain Current	I_{DM}	-80	A
Avalanche Current	I_{AS}	-13.8	A
Avalanche energy $L=0.5\text{mH}$	E_{AS}	95	mJ

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Turn-on Delay Time	t _{d(ON)}	V _{GS} =-10V V _{DS} =-30V R _L =7.5 R _{GEN} =3		8		ns
Turn-on Rise Time	t _r			3.8		
Turn-off Delay Time	t _{d(OFF)}			31.5		

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

BR Q
20P06

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BR y

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20P06 y

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Note:

BR:

Company Code

Q:

Automobile halogen-free product Code

20P06:

Product Type Code

****:

Lot No. Code, code change with Lot No

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

^ačy

Note:

1o• Ä½ “† 150½200 - kž • 60½120sec;

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

2o• Q> “† 255 r5 - kž • 4 Ò 5 r0.5sec;

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 ,† 2½10 - /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