

5 é / Descriptions

TO-252 .> // x 6 ?ú 3 « | • 'ož

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

α a / Features

V<sub>DS</sub> (V) = -60V I<sub>D</sub> = -20A (V<sub>GS</sub> = f 20V)

R<sub>DS(ON)</sub>@-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

• Ů - æ / Pinning

PIN1 y G

PIN 2 y D

PIN 3 y S

PIN 4 y D

, M V / Marking

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See Marking Instructions.

@ f Parameter	... Z Symbol	f › Rating	% y Unit
Drain-Source Voltage	V <sub>DSS</sub>	-60	V
Gate-Source Voltage	V <sub>GSS</sub>	±20	V
Continuous Drain Current	I <sub>D</sub> (T <sub>I</sub> =25°C)	-20	A
Pulsed Drain Current	I <sub>DM</sub>	-80	A
Avalanche Current	I <sub>AS</sub>	-13.8	A
Avalanche energy L=0.5mH	E <sub>AS</sub>	95	mJ

@ f Parameter	... Z Symbol	y j Ú ^ Test Conditions	Â 4 › Min	Á ° › Typ	Â Ý › Max	% y Unit
Turn-on Delay Time	t <sub>d(ON)</sub>	V <sub>GS</sub> =-10V    V <sub>DS</sub> =-30V R <sub>L</sub> =7.5        R <sub>GEN</sub> =3		8		ns
Turn-on Rise Time	t <sub>r</sub>			3.8		
Turn-off Delay Time	t <sub>d(OFF)</sub>			31.5		

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ = ) ϕ / Package Dimensions

, M y f / Marking Instructions

BR Q  
20P06  
\*\*\*\*

<sup>a</sup> ç y  
BR y , [ W A  
Q y V ñ —)í D } ö œ  
20P06 y ° Z W A  
y ÿ D Z W A k š ÿ D Z J  
Note:  
BR: Company Code  
Q: Automobile halogen-free product Code  
20P06: Product Type Code  
\*\*\*\*: Lot No. Code, code change with Lot No

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


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Note:

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;

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

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

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

3o•D N ò i Ò 0 , † 2 ½10 - /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