

/ Descriptions

TO-252

P

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

/ Features $V_{DS} (V) = -60V$ $I_D = -14 A$ ($V_{GS} = 20V$) $R_{DS(on)1@-10V}$ 100m (Type.83m) $R_{DS(on)2@-4.5V}$ 130m (Type.100m)

AEC-Q101

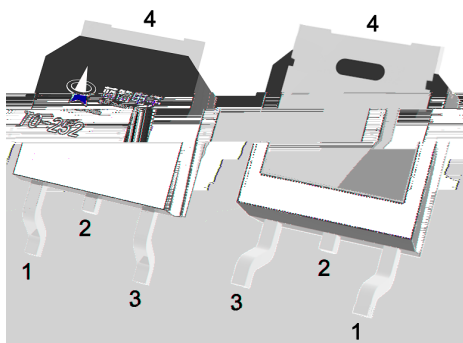
Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

LED

Motor Drive, Power Tools, LED Lighting, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit


/ Pinning

PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-60	V

/ Electrical Characteristic Curve

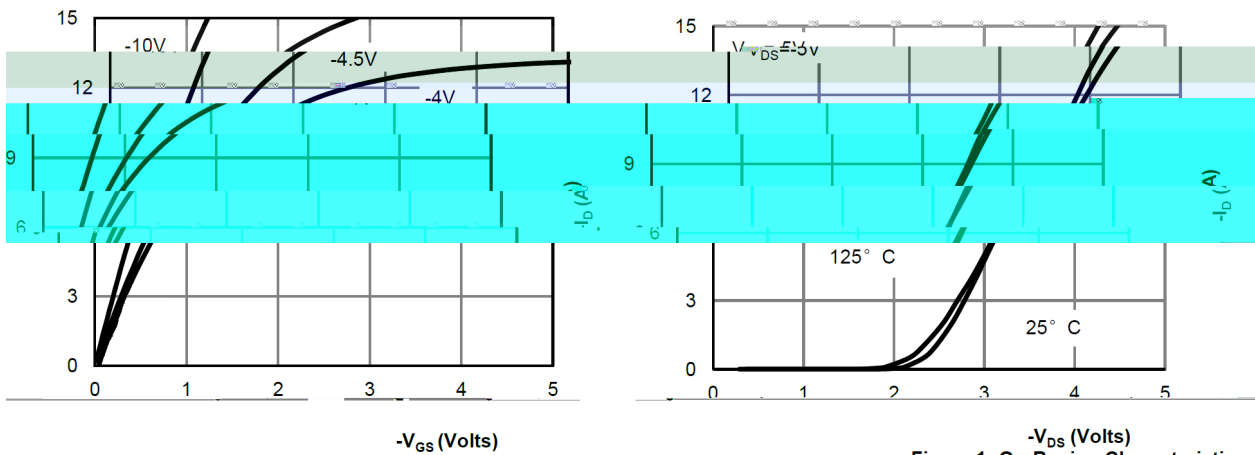


Figure 2: Transfer Characteristics

Figure 1: On-Region Characteristics

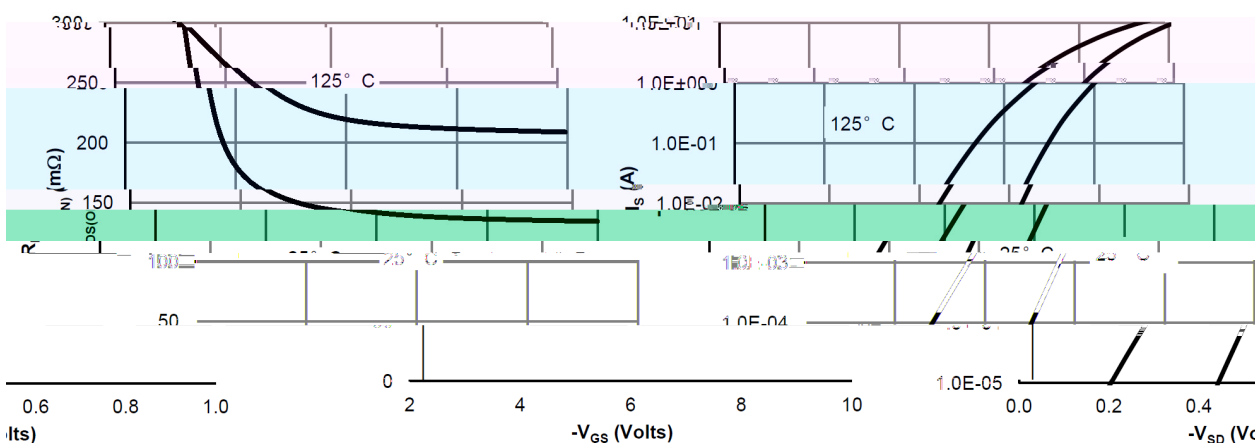
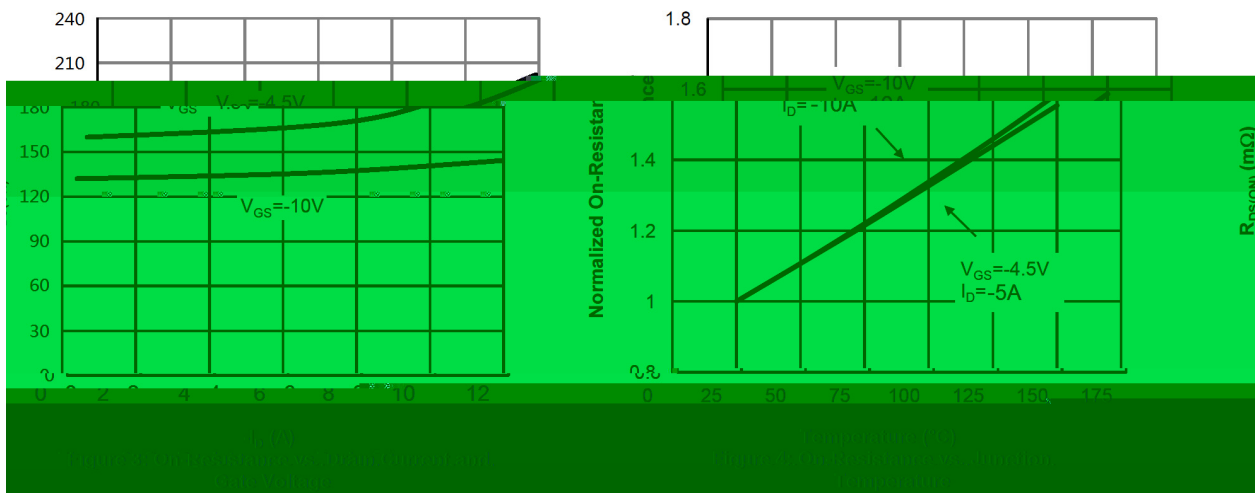
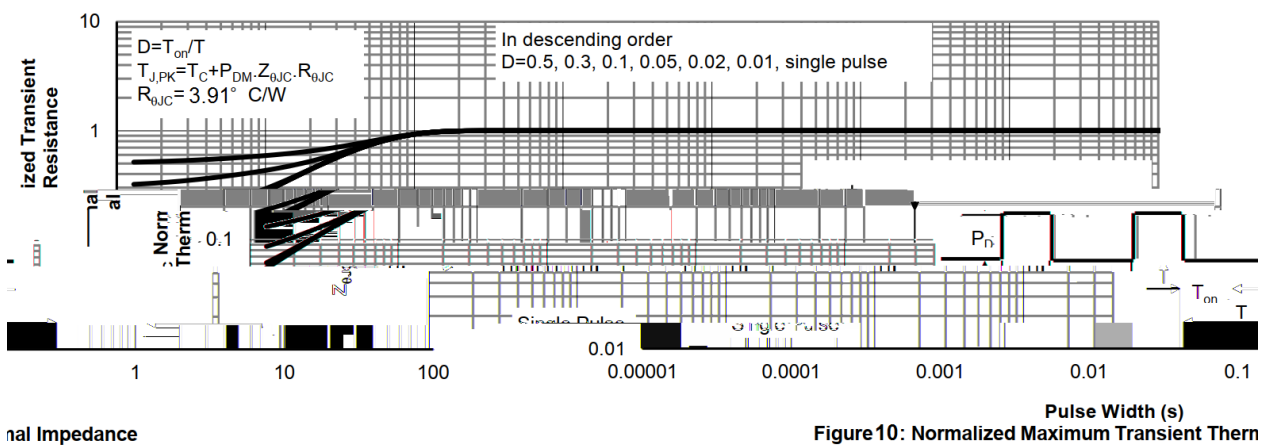
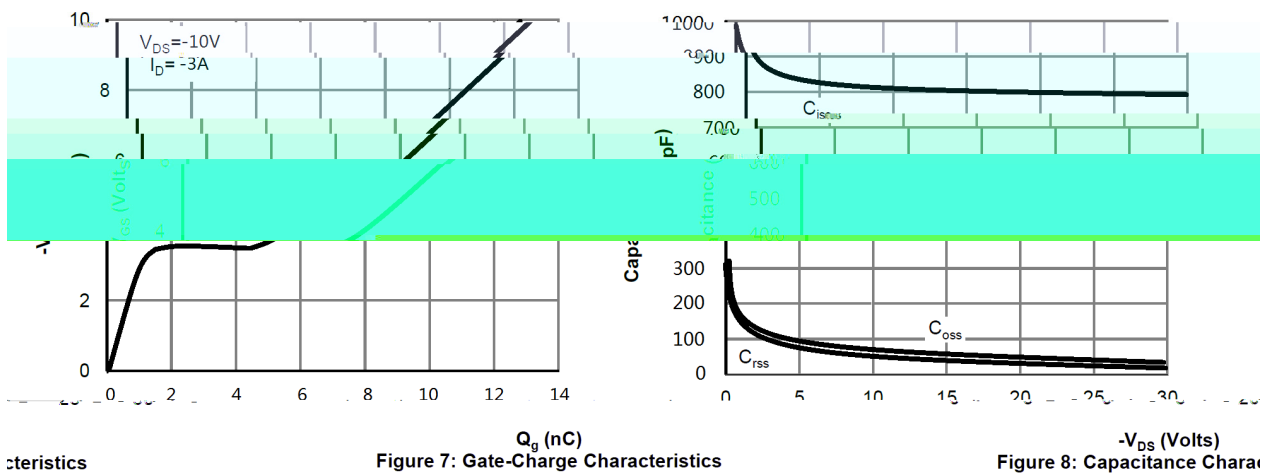


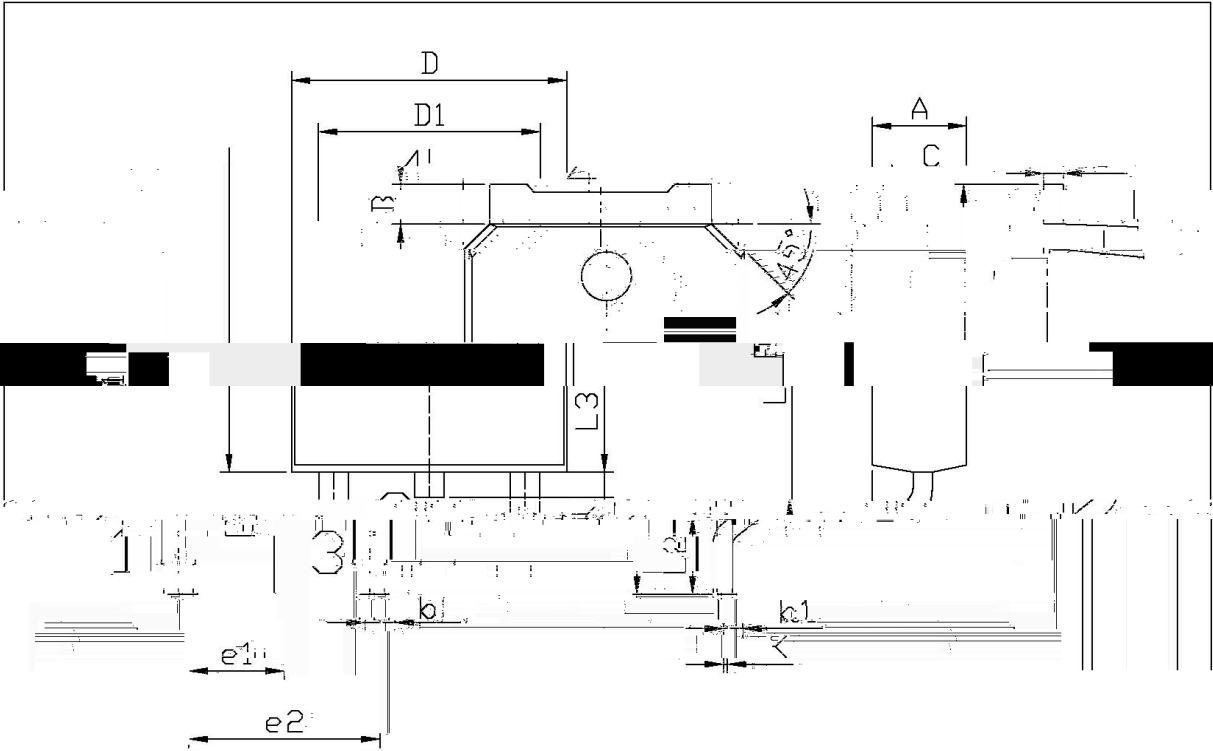
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body Diode Characteristics

/ Electrical Characteristic Curve



/ Package Dimensions



单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	B	0.95	1.05
B	0.95	1.05	C	0.70	0.80
C	0.70	0.80	D	6.25	6.50
D	6.25	6.50	D1	0.45	0.55
D1	0.45	0.55	L3	2.24	2.34
L3	2.24	2.34	e1	2.24	2.34
e1	2.24	2.34	e2	9.85	10.35
e2	9.85	10.35			

, M y f / Marking Instructions

BR Q
1C0P06

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BR y , [W A

Q y V ñ —) í D } ö œ

1C0P06 y ° Z W A

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Note:

BR: Company Code

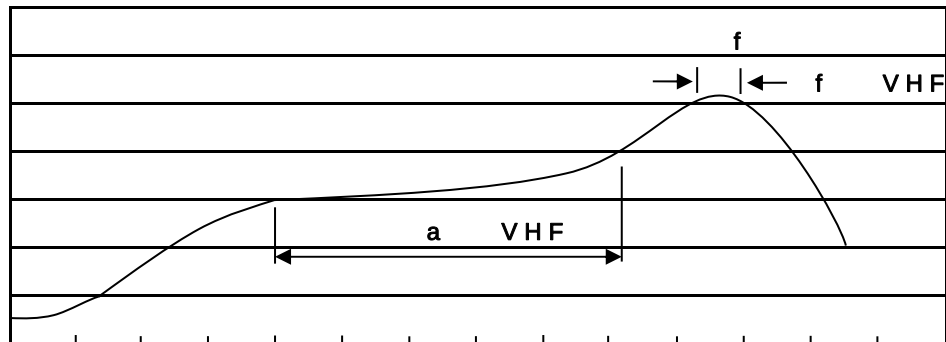
Q: Automobile halogen-free product Code

1C0P06: Product Type Code

*****: Lot No. Code, code change with Lot No

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7HPSHUDWUXUH



7LPH VHF

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Note:

- 10• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.
 20• Q > “ † 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
 30•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

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
TO-252	2,500	2	5,000	6	30,000	13 s ×16	360×360×50	380×335×366

ì' x / TUBE

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Tube /•1×	Tubes/Inner Box •1× /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube•1×	Inner Box	Outer Boxç
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

„Đ y f / Notices