BR2N7002K2Q

Rev.C Jul.-2022

DATA SHEET

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l Descriptions

SOT-23 © ª ª « N ¬ - MOS ® ¯ f ° §

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

l Features

± ² % ³ - ` ´ µ ¶ · ¸ ¹ º % » ¢ ¶ · § ¼ ¶ ½ ¾ ¿ 2KV C n o AEC-Q101 p q T r s t u v C À Á i j §

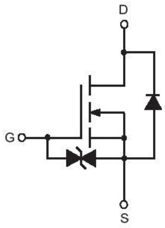
Sensitive gate trigger current and Low Holding current.ESD protected up to 2KV, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

l Applications

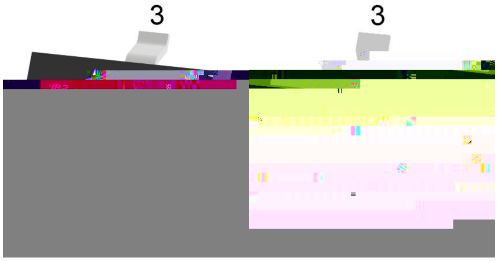
L Â Ã Ä % Å Æ ¸ Ç S ³ - C w x g h f L % y A u v §

Intended for use in general purpose switching and phase control applications, Meet the stringent requirements of automotive applications.

l Equivalent Circuit



l Pinning



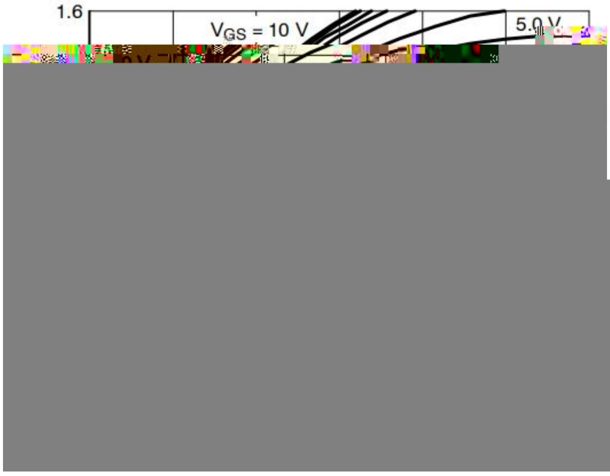
PIN1 ¦ G PIN 2 ¦ S PIN 3 ¦ D

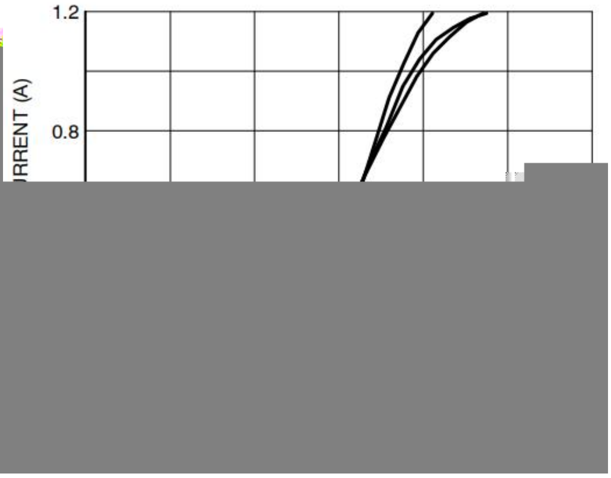
l Marking

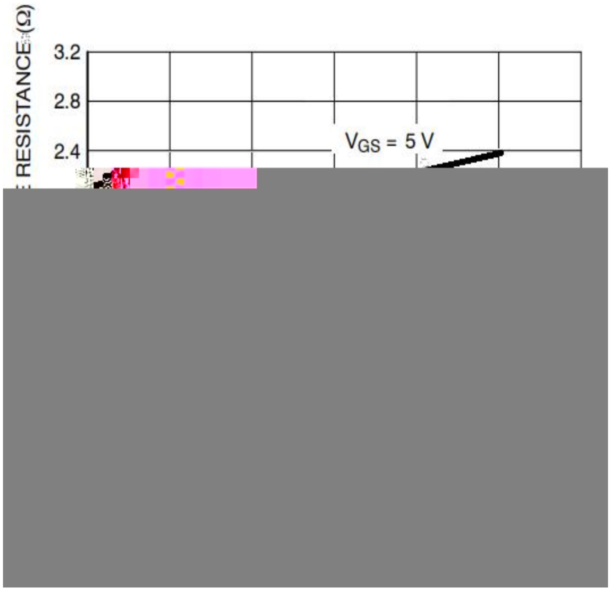
Marking	702Q2

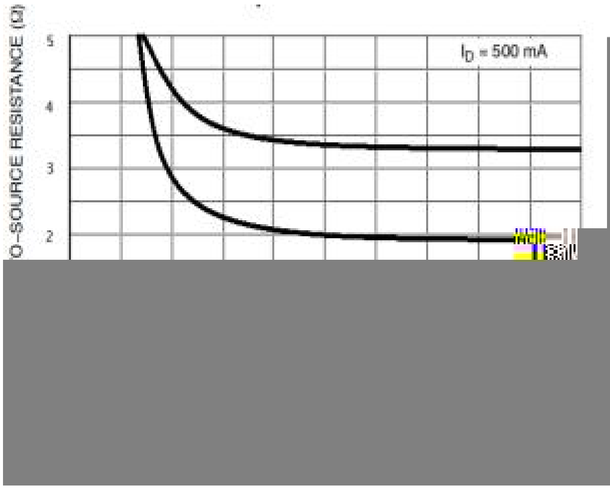
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn－On Delay Time	$t_{d(ON)}$			12.2		
Rise Time	t	VGS =10V, VDD=25V, ID=500mA, RG=25Ω				ns

/ Electrical Characteristic Curve









B

[redacted]

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

286r

说明：

1、预热温度 150～200 ，时间 60 0sec;

2、峰值温度 255 5 ，时间持 5 0.5sec;

3、焊接制程冷却速度为 2～1 /sec.

No

1.P eating:150~ , Ti 0~120sec.

2.P k Temp.:255 , Dura n:5 0.5sec.

3. C ing Speed: 0 /sec.

/ Resistance to Soldering Heat Test Conditions

温度：260 5

39.509 TD [( )]TJ ET BT 10.56 0 0 10.56 0 0 1m /F8 1 Tf 0 0 0 sc 00 0 SC 0 Tr 18.262 46.327 TD [(")]TJ ET BT 10.56