/ Descriptions

TO-252 N

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

/ Features

$R_{DS(on)}$ C_{rss} AEC-Q101

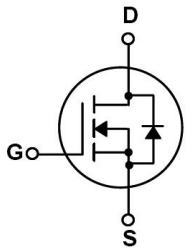
Low $R_{DS(on)}$,low gate charge, low C_{rss}, fast switching, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

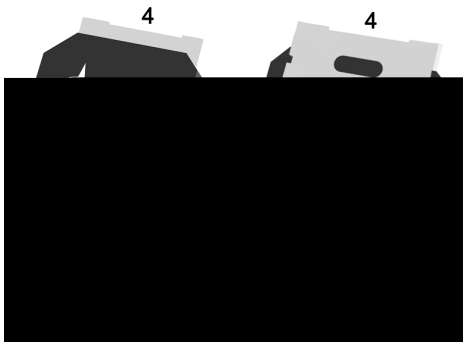
DC/DC

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.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 D PIN 3 S PIN 4 D

/ Marking

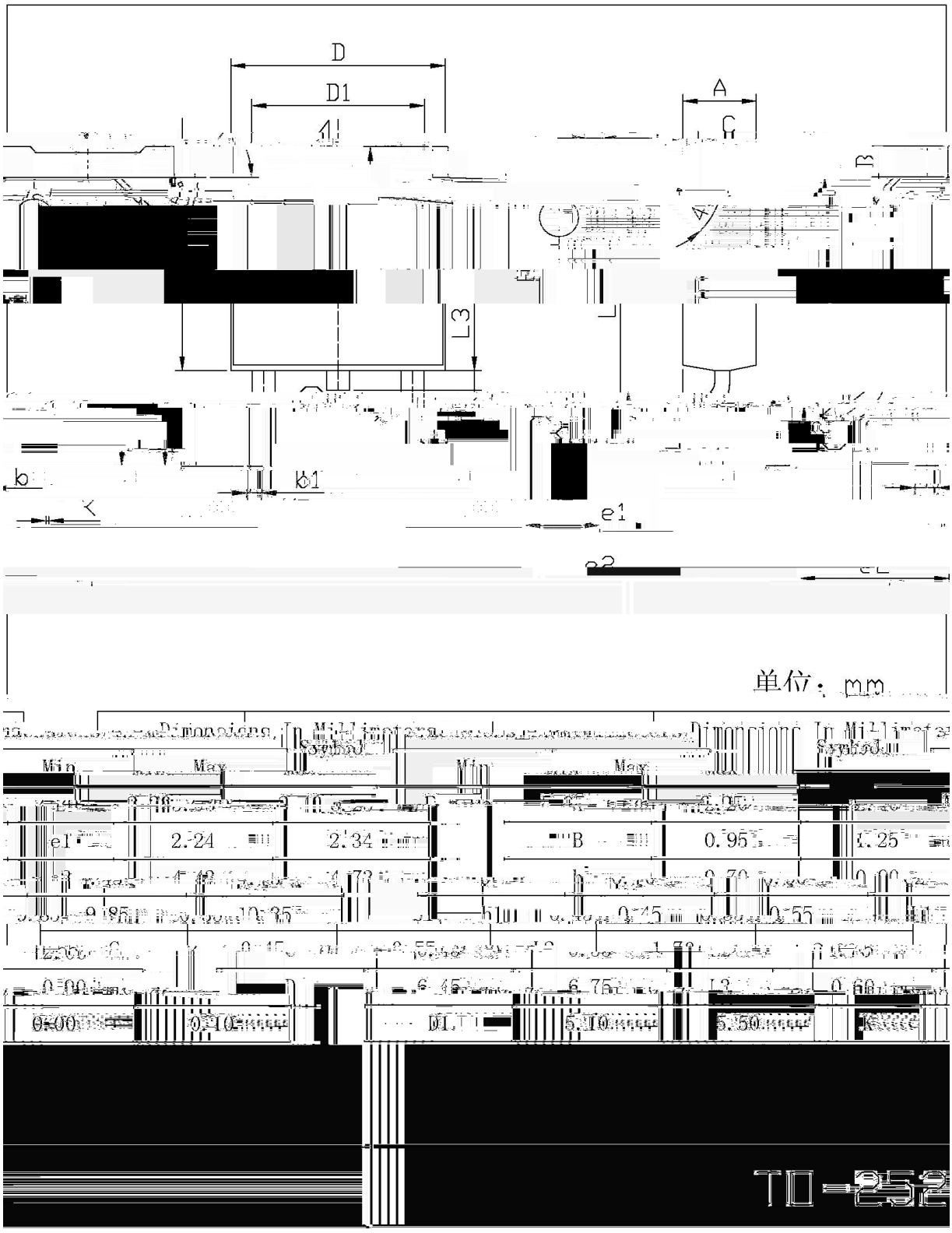
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	40	V
Drain Current	I_D(Tc=25)	164	A
Drain Current - Pulsed	I_{DM}		

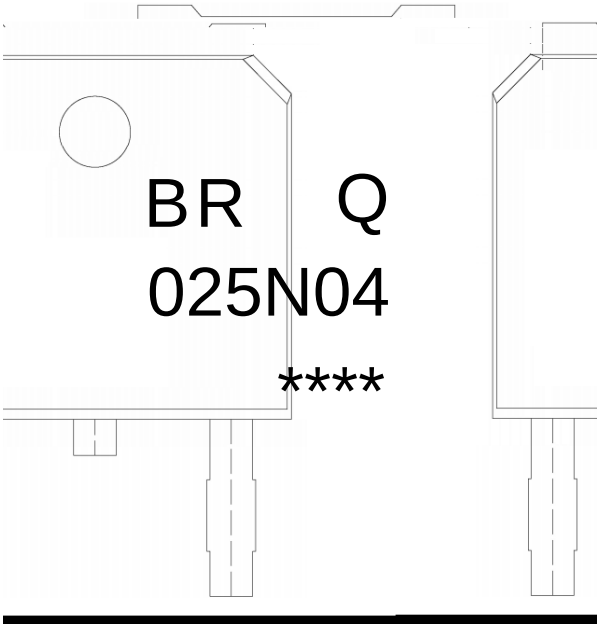
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=20V R_L=1Ω R_{GEN}=3Ω		11		ns
Turn-On Rise Time	t_r			11		
Turn-Off Delay Time	$t_{d(off)}$			40		
Turn-Off Fall Time	t_f			10		

/ Package Dimensions



/ Marking Instructions



BR

Q

025N04

****

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
025N04:	Product Type Code
****:	Lot No. Code, code change with Lot No

( ) /

Note:

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

/ Packaging SPEC.

C•Ч¸(t(.6(a)A01 0 TD .200REEL<0<<078Tf 1.00sec 0 TD .0017 Tc [((Tf -3-4736. T /22072>-)-222.[( )-5)5.7(PI)5J7(nner B)1