

/ Revised record

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A	2022.6.22	ALL	0 1 AOS-AOD32326 2 3 4 - 5 6 2 3 4	7 8 9	: ; <
A	2022-6-23	all	= > ? Q,@A) B C D ? E F G H I J K L M AEC-Q101 N O P Q R S T U V W X E F B C % Y 3 T U Z [D ? \] N ^ Q _ ` a b c 245±5 [ d e f g h 5± 0.5sec i j h k ` a b c 255± 5 [d e f g h 5±0.5sec l	m n	

/ Descriptions

TO-252 o p p q N r s MOS t u B v l
N-Channel Enhancement Mode Field Effect Transistor in a TO-252 Plastic Package.

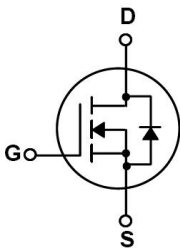
/ Features

VDS (V) = 30V
ID =67A (VGS = ±20V)
RDS(ON)@10V≤6mR
L M AEC-Q101 N O P Q R S T U [w x G H I
Qualified to AEC-Q101 Standards for High Reliability, HF Product.

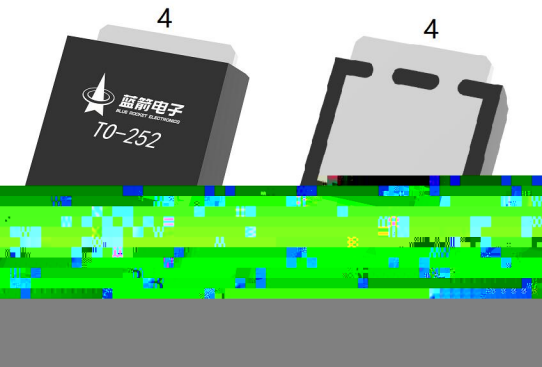
/ Applications

y z { | % DC/DC } ~ , i C £ £ ¢ C ¥ [W X E F B C % Y 3 T U l
DC/DC Converters in Computing,Suitable for general purpose, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 k G PIN 2 k D PIN 3 k S PIN 4 k D

/ Marking

| \] § ¨ l See Marking Instructions.

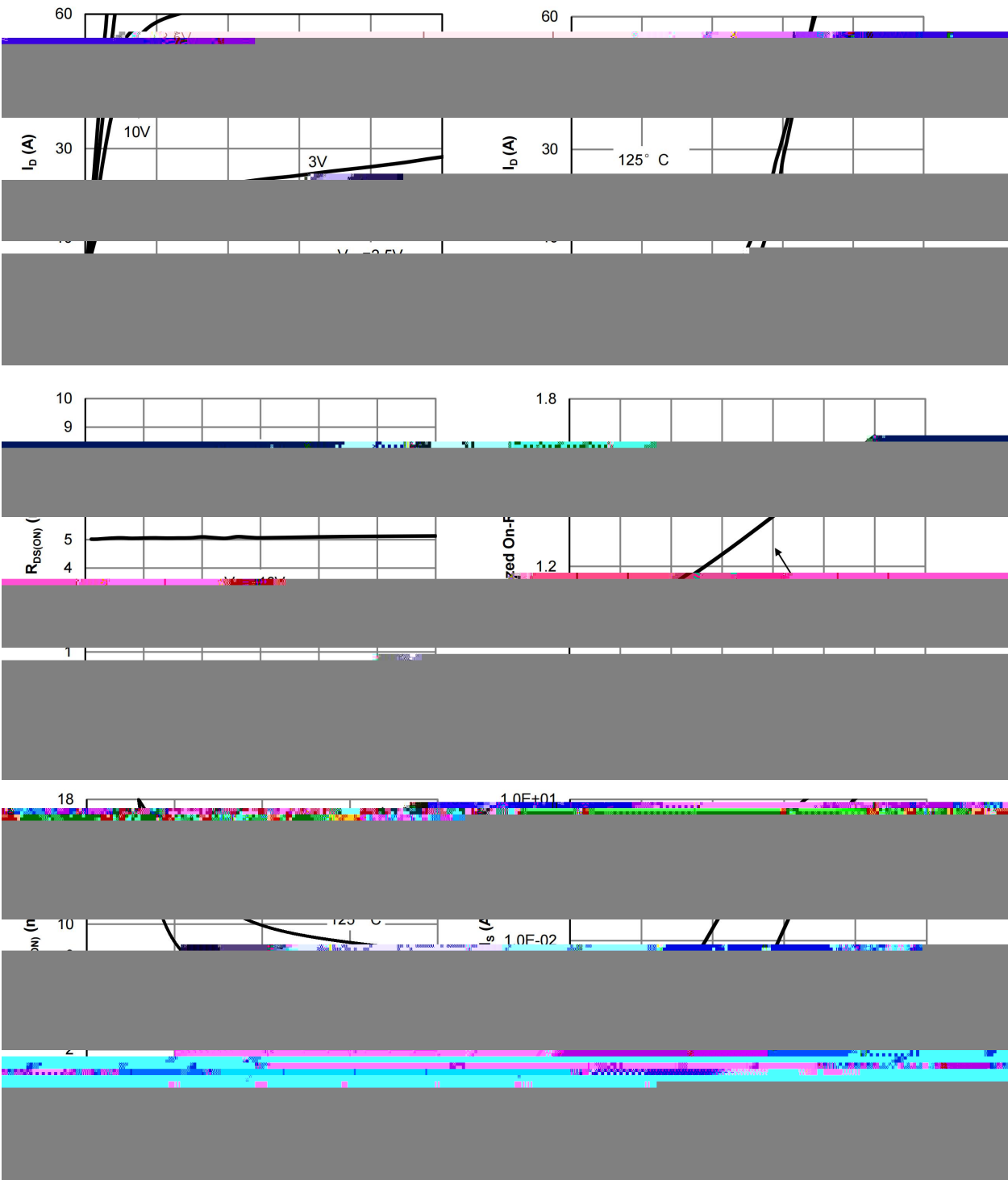


Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	30	V
Drain Current	$I_D(T_c=25^{\circ}\text{C})$	67	A
Drain Current - Pulsed	I_{DM}	140	A
Gate-Source Voltage	V_{GSS}	± 20	V
Single Pulsed Avalanche Energy(L=0.5mH)	E_{AS}	185	mJ
Avalanche Current	I_{AS}	21.5	A
Power Dissipation	$P_D(T_c=25^{\circ}\text{C})$	29	W

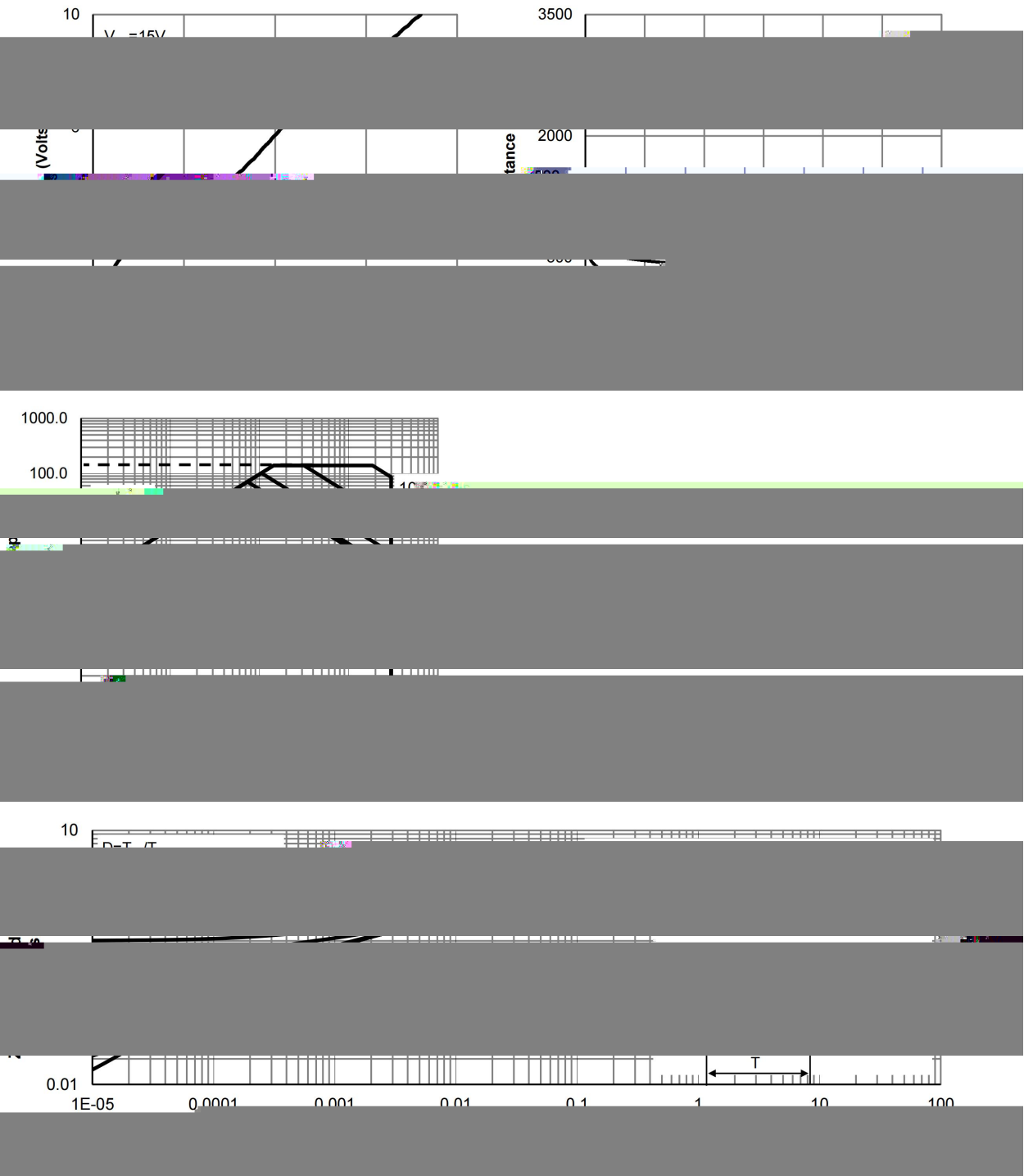


Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=10V$ I_L				μs
		$V_{DS}=15V$				

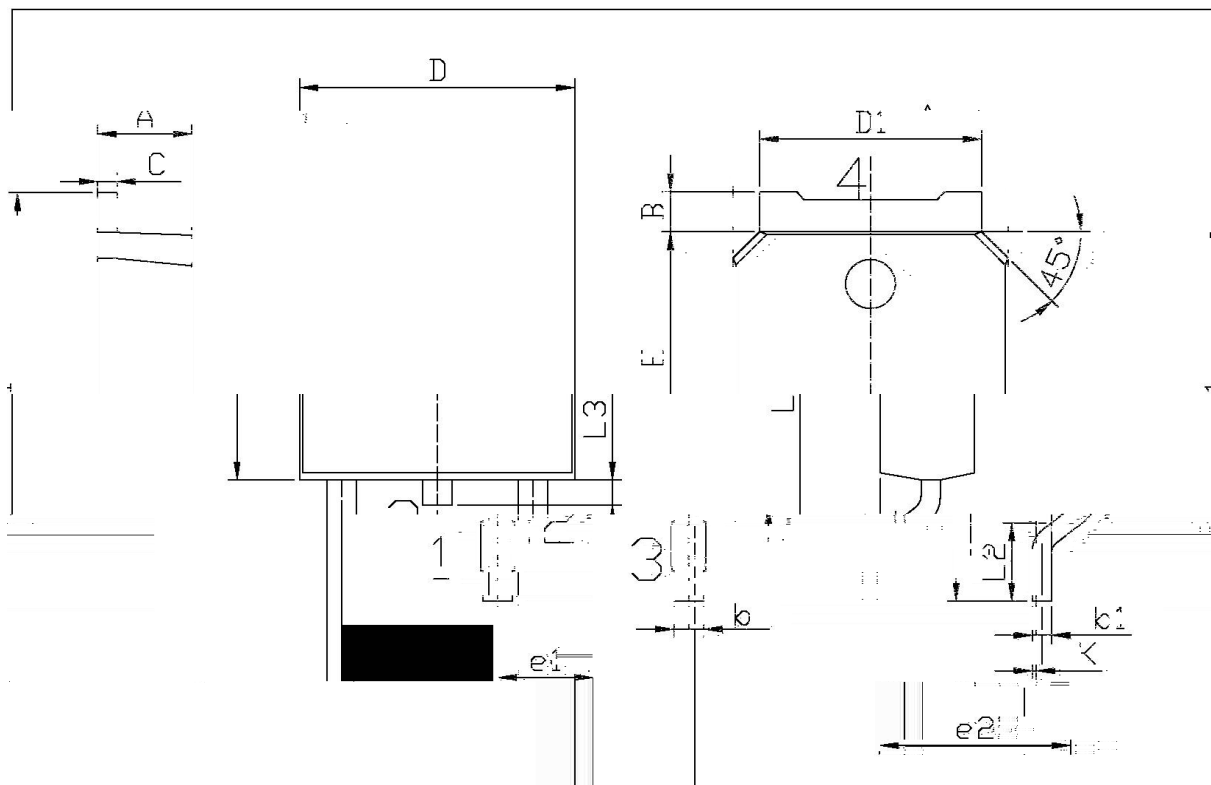
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions

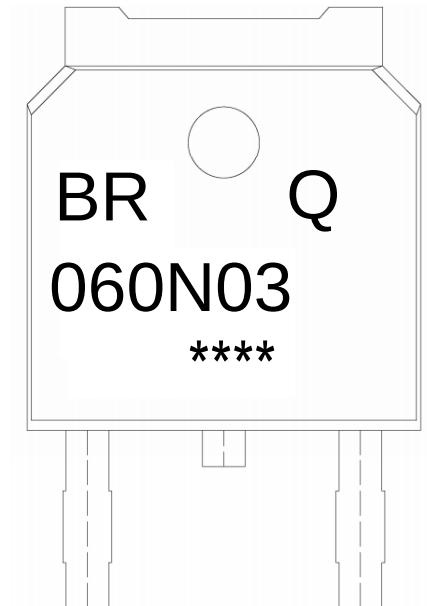


单位: mm

Dimensions In Millimeters		Dimensions In Millimeters	
Symbol	Value	Symbol	Value
ϕ	5.95	ϕ	2.20
e1	2.24	B	0.95
ϕ	4.34	ϕ	0.70
ϕ	9.85	ϕ	0.45
ϕ	0.75	ϕ	1.2
ϕ	0.55	ϕ	1.70
ϕ	6.75	ϕ	6.45
ϕ	0.60	ϕ	0.90
ϕ	0.80	ϕ	0.50
ϕ	0.80	ϕ	0.50

TN-252

/ Marking Instructions



BR

Q

060N03

Note:

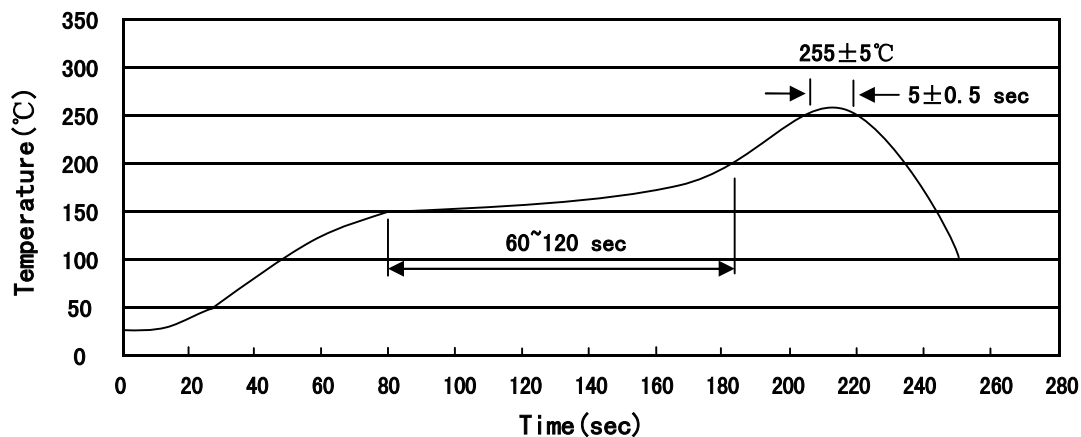
BR: Company Code

Q: Automobile halogen-free product Code

060N03: Product Type Code

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

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



Note:

- | | | | | | |
|---|-------|-----|-----------|---------|--|
| 1 | 150 | 200 | 60 | 120sec; | 1.Preheating:150~200°C, Time:60~120sec. |
| 2 | 255±5 | | 5±0.5sec; | | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. |
| 3 | | 2 | 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13" ×16	360×360×50	380×335×366

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

/ Notices