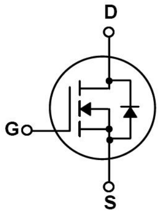
TO-252 N MOS N-CHANNEL MOSFET in a TO-252 Plastic Package.

$R_{DS(on)}$ C_{rss}

Low $R_{DS(on)}$,low gate charge, low C_{rss}, fast switching.

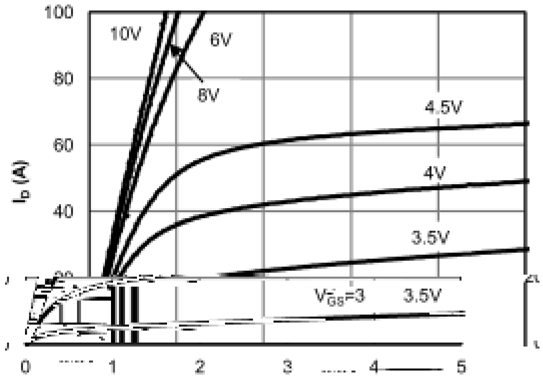
DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.



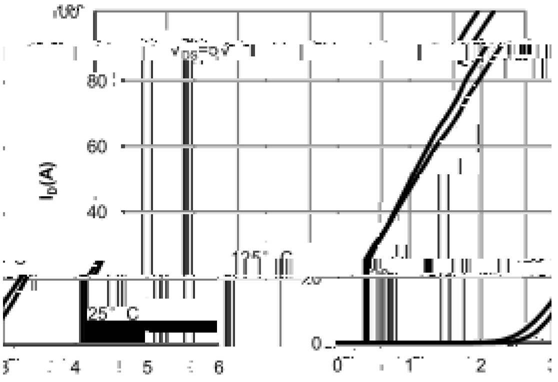
PIN1 G PIN 2 D PIN 3 S PIN 4 D

See Marking Instructions.



V_{DS} (Volts)

Figure 1: On-Region Characteristics

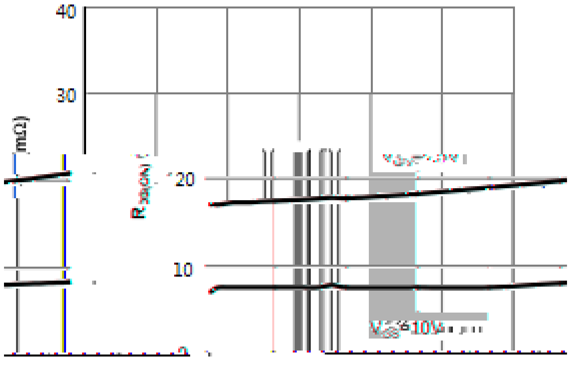


olts)

racteristics

V_{GS}(V

Figure 2: Transfer Cha



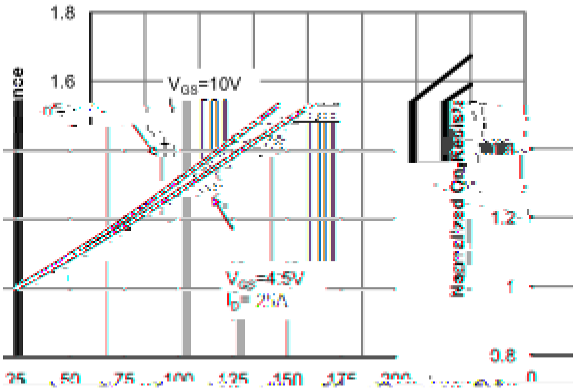
(A)

/s. Drain Current and Gate

I_D

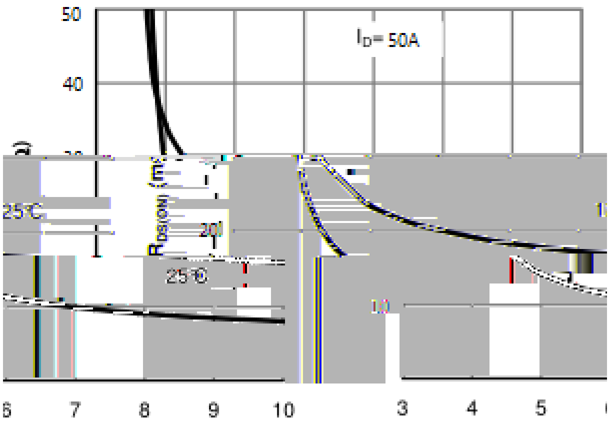
Figure 3: On-Resistance v

Voltage

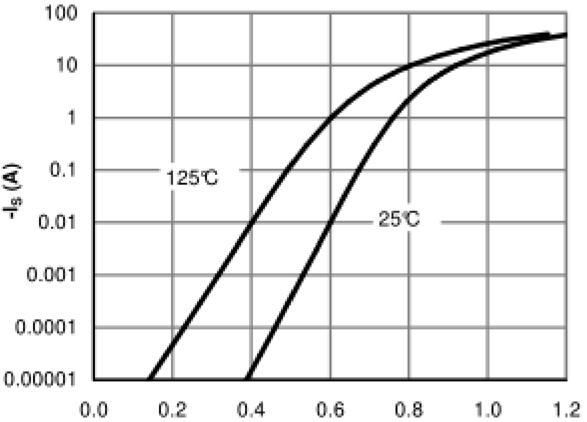


Temperature (°C)

Figure 4: On-Resistance vs. Junction Temperature



V_{GS} (Volts)



$-V_{SD}$ (Volts)

Characteristic

Figure 6: Body Diode

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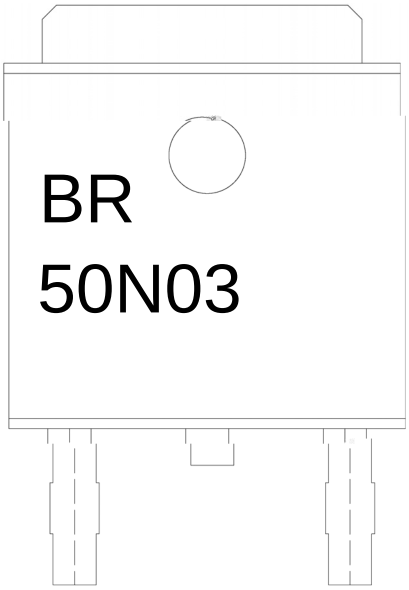

BR

50N03

****

Note:

BR:	Company Code
50N03:	Product Type Code.
****:	Lot No. Code, code change with Lot No.

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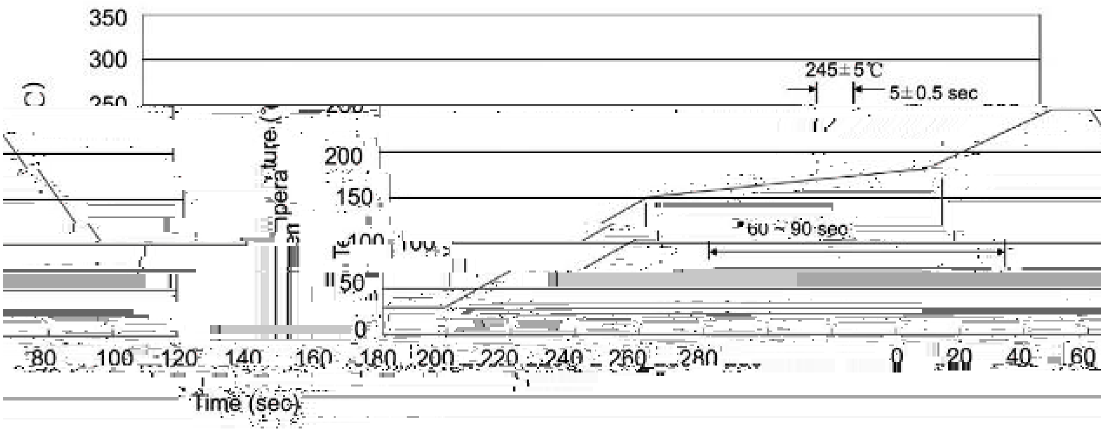
Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1 150 180 60 90sec;

1.Preheating:150~180 , Time:60~90sec.

2 245±5 5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3 2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units					Dimension		(unit mm^3)

/ TUBE

Package Type	Units					Dimension		(unit mm^3)