

BRCS120N06HA

Rev.A Nov.-2018

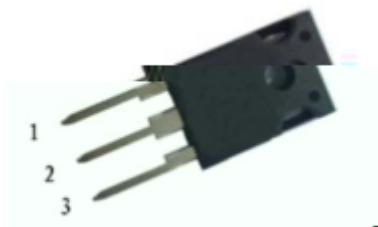
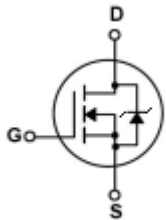
TO-247 N N-CHANNEL MOSFET in a TO-247 Plastic Package.

Low gate charge minimize switching loss and fast recovery body diode.HF Product.

DC/DC

UPS

These devices are well suited for high efficiency switching DC/DC converters,Synchronous rectification and UPS inverter.



PIN1 G PIN 2 D PIN 3 S

S

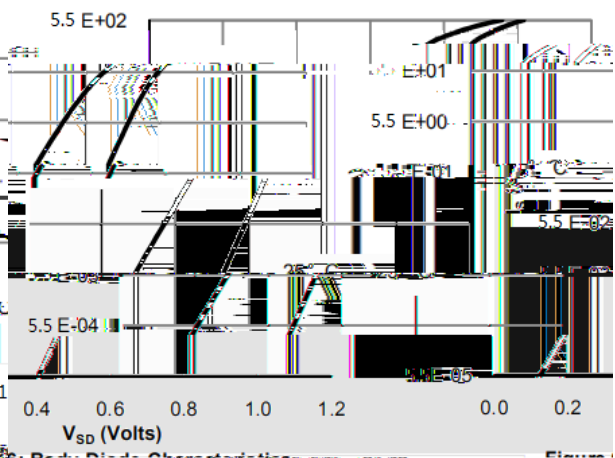
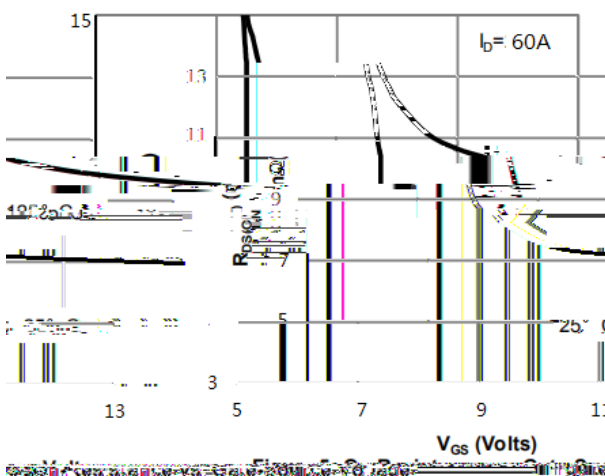
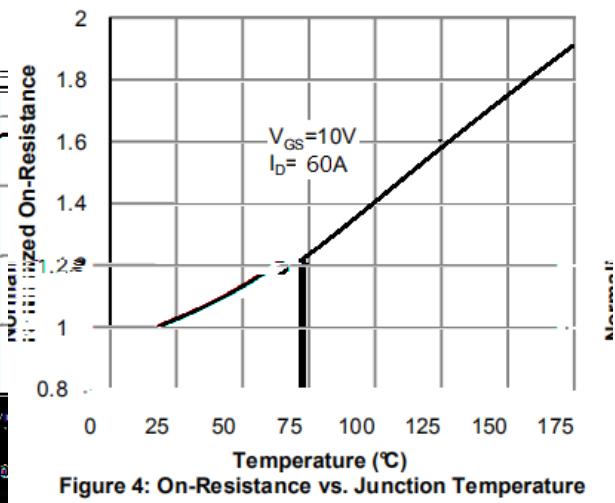
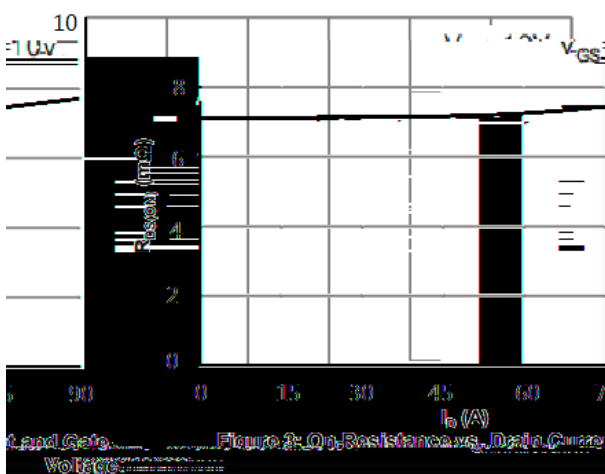
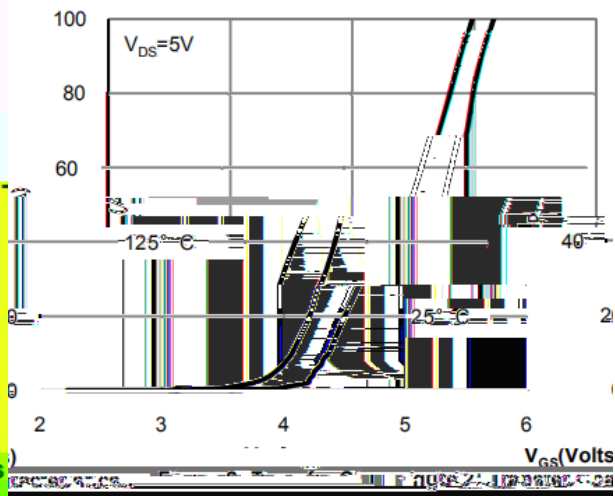
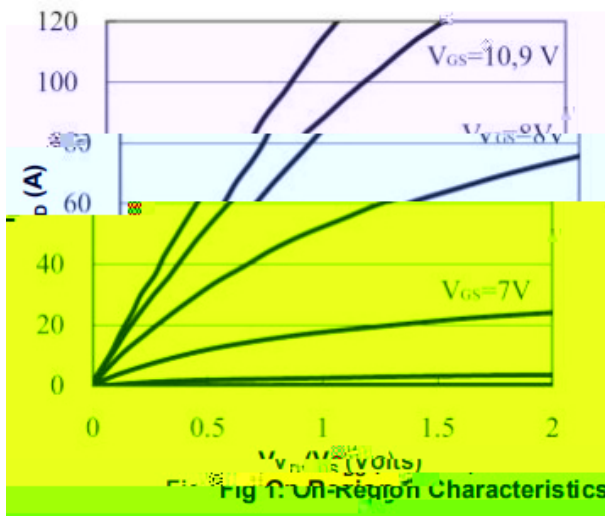
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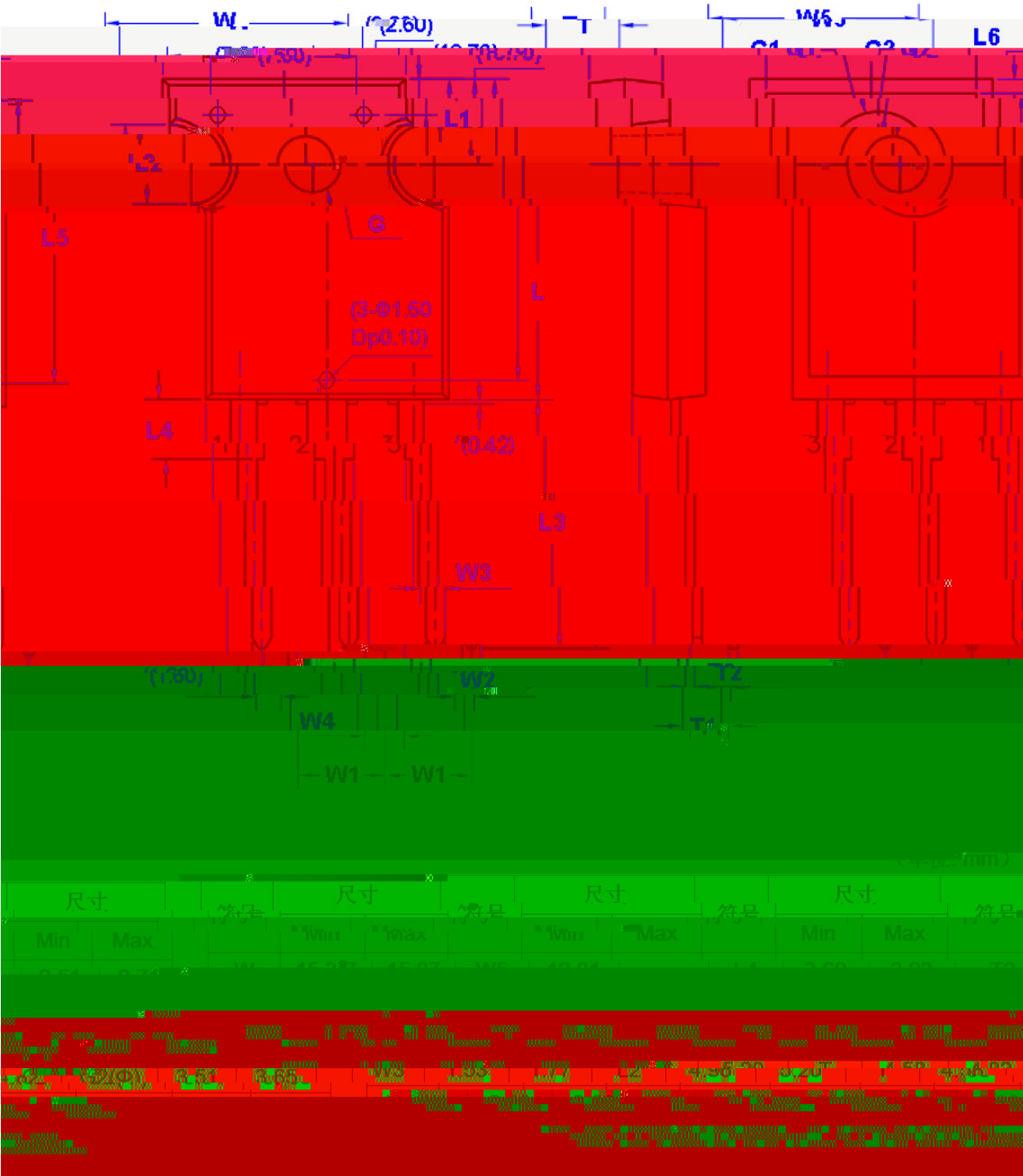
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	120	A
	$I_D(T_c=100^\circ\text{C})$	88	A
Pulsed Drain Current	I_{DM}	480	A
Gate-Source Voltage	V_{GSS}	± 20	V
Avalanche Current	I_{AR}	76.7	A
Avalanche energy $L=0.5\text{mH}$	E_{AS}	1200	mJ
Total Power Dissipation	$P_D(T_c=25^\circ\text{C})$	300	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 175	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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/ Electrical Characteristic Curve



/ Package Dimensions





/ Marking Instructions



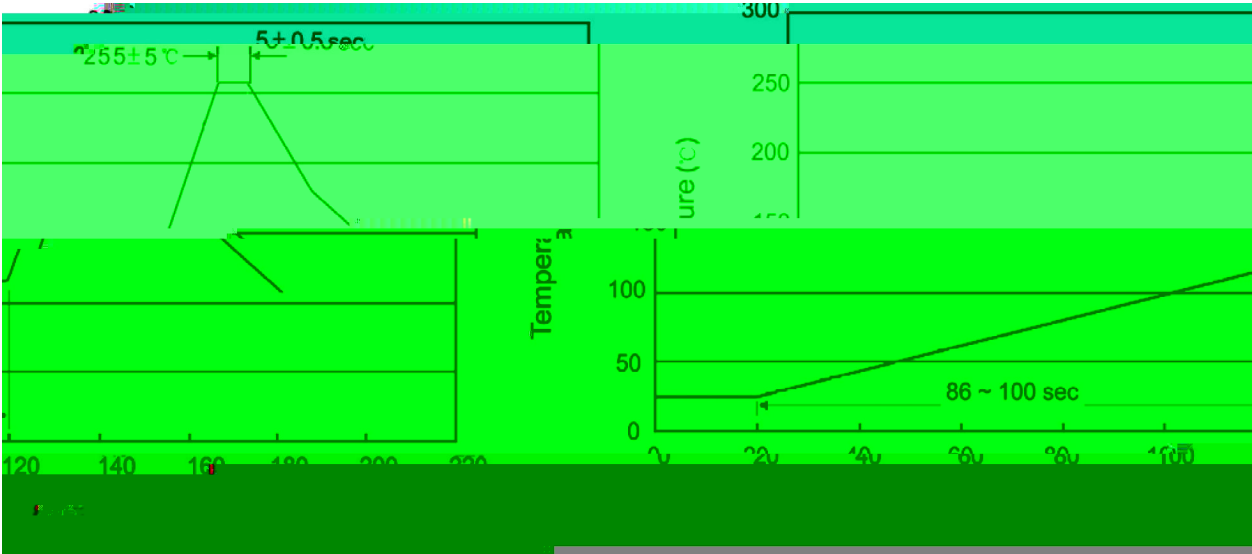
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120N06

Note:

BR:

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 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

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec
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