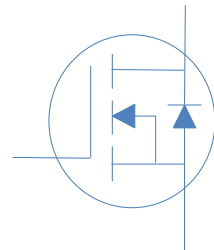


80V N-Ch Power MOSFET

V_{DS}		80	V
$R_{DS(on),typ}$	$V_{GS}=10V$	4.0	$m\Omega$
$R_{DS(on),typ}$	$V_{GS}=4.5V$	5.6	$m\Omega$
$R_{DS(on),typ}$	$V_{GS}=10V$	4.3	$m\Omega$
$R_{DS(on),typ}$	$V_{GS}=4.5V$	5.9	$m\Omega$
I_D (Silicon Limited)		130	A
I_D (Package Limited)		120	A



Part Number	Package	Marking
HGB058N08SL	TO-263	GB058N08SL
HGP058N08SL	TO-220	GP058N08SL

Absolute Maximum Ratings at $T_J=25$ (unless otherwise specified)

Parameter	Symbol	Conditions	Value	Unit
Continuous Drain Current (Silicon Limited)	I_D	$T_C=25$	130	A
		$T_C=100$	92	
Continuous Drain Current (Package Limited)		$T_C=25$	120	
Drain to Source Voltage	V_{DS}	-	80	V
Gate to Source Voltage	V_{GS}	-	± 20	V
Pulsed Drain Current	I_{DM}	-	380	A
Avalanche Energy, Single Pulse	E_{AS}	$L=0.3mH, T_C=25$	240	mJ
Power Dissipation	P_D	$T_C=25$	176	W
Operating and Storage Temperature	T_J, T_{stg}	-	-55 to 175	

Absolute Maximum Ratings

Parameter	Symbol	Max	Unit
Thermal Resistance Junction-Case	R_{JC}	0.85	$^{\circ}W$
Thermal Resistance Junction-Ambient	R_{JA}	65	$^{\circ}W$

Figure 7. Typical Gate-Charge vs. Gate-to-Source Voltage



Figure 8. Typical Capacitance vs. Drain-to-Source Voltage

Figure 9. Maximum Safe Operating Area

Figure 10. Maximun Drain Current vs. Case Temperature

Figure 11. Normalized Maximum Transient Thermal Impedance, Junction-to-Case

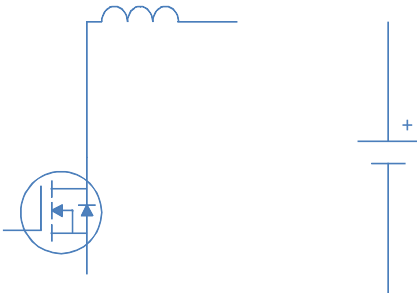
Inductive switching Test

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Gate Charge Test

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Uclamped Inductive Switching (UIS) Test

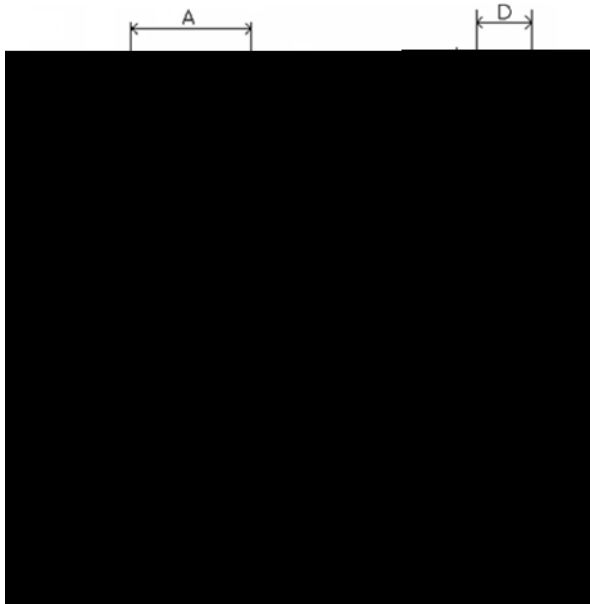
	
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Diode Recovery Test

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TO-220, 3 leads

Dimintions in mm unless otherwise specified



Symbol	Min	Nom	Max
A	9.66	9.97	10.28
A2	9.80	10.00	10.20
B	15.60	15.70	15.80
C	12.70	13.48	14.27
D	4.30	4.50	4.70
E	9.00	9.20	9.40
F		2.54	
G1	1.32	1.52	1.72
G2	0.70	0.82	0.95
G3	0.45	0.52	0.60
H	3.50	3.60	3.70
I	2.70	2.80	2.90
J	15.70	15.97	16.25
K	2.20	2.40	2.60
L	1.15	1.27	1.40
N	6.40	6.60	6.80

TO-263, 2 leads

Dimintions in mm unless otherwise specified

Symbol	Min	Nom	Max
A	9.66	9.97	10.28
B	1.02	1.17	1.32
C	8.59	9.00	9.40
D1	1.14	1.27	1.40
D2	0.70	0.83	0.95
D3		5.08	
E	15.09	15.24	15.39
F	1.15	1.28	1.40
G	4.30	4.50	4.70
H	2.29	2.54	2.79
I		0.25	
K	1.30	1.45	1.60
a1	0.45	0.55	0.65
a2(degree)	0°		8°