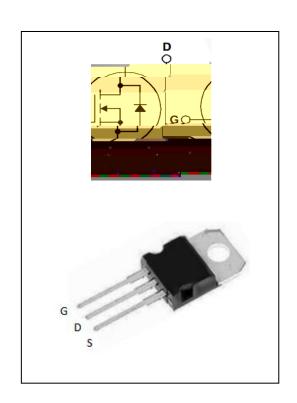




Thunder High Power Products

The TH50N06PW uses advanced technology and design to provide Excellent $R_{\text{DS(ON)}}$. It can be used in a wide variety of applications.

- V_{DS}=60V,I_D=50A
- Low ON Resistance
- Low Reverse transfer capacitances
- 100% Single Pulse avalanche energy Test
- Power switching application
- Load switch



@ Ta=25 (unless otherwise specified)

V _{DSS}	Drain-to-Source Breakdown Voltage	60	V
ΙD	Drain Current (continuous) at Tc=25	50	А
Ірм	Drain Current (pulsed)	200	Α
V _G s	Gate to Source Voltage	+/-20	V
P _{tot}	Total Dissipation at Tc=25	80	W
Tj	Max. Operating Junction Temperature	175	
Eas	Single Pulse Avalanche Energy	400	mj

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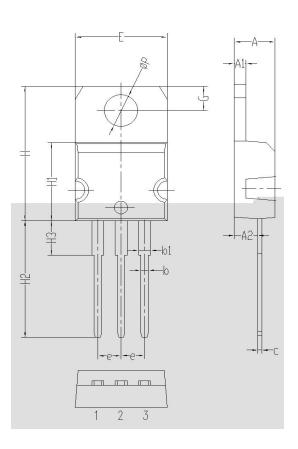
V _{DS}	Drain to source Voltage	V _{GS} =0V, I _D =250 A	60			V
R _{DS(on)}	Static Drain-to-Source on-Resistance	V _{GS} =10V, I _D =25A		16.0	23.0	m
V _{GS(th)}	Gated Threshold Voltage	V _{DS} = V _{GS} , I _D =250 A	2	3.1	4	V
V SD	Diode Forward Voltage	V _{GS} =0V, I _{DS} =25A			1.25	V
loss	Drain to Source leakage Current	V _{DS} =60V, V _{GS} = 0V			1.0	Α
lgss(F)	Gated to Source Foward Leakage	V _{GS} = +20V,			100	nA
Igss(r)	Gated to Source Reverse Leakage	V _{GS} = -20V,			-100	nA
Ciss	Input Capacitance	V _{GS} = 0V,		1000		pF
Coss	Output Capacitance	V _{DS} = 15V,		450		pF
Crss	Reverse Transfer Capacitance	f=1.0MHZ		80		pF
	*Pulse Test: Pulse Width <	= 300 s, Duty Cycle< =2%			'	

Symbol	Paramter	

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Cumbal	mm			
Symbol	Min		Max	
А	4.05	4.25	4.45	
A1	1.2	1.3	1.4	
A2	2.35	2.45	2.55	
b	0.60	0.8	1.00	
b1	1.12	1.32	1.52	
С	0.25	0.45	0.65	
е	2.34	2.54	2.74	
E	9.8	10.0	10.2	
Н	15.1	15.3	15.5	
H1	8.60	8.8	9.00	
H2	13.0	13.5	14.0	
Н3	3.80	4.0	4.20	
G	2.60	2.8	3.00	
ФР	3.60	3.8	4.00	

Thunder Microelectronics Incorporated Limited reserves the right to make changes without further notice to any products or specifications herein. When use the product, be sure to obtain the latest specification.

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