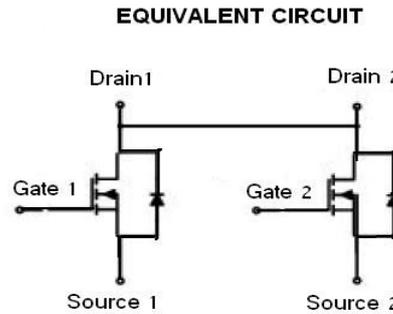
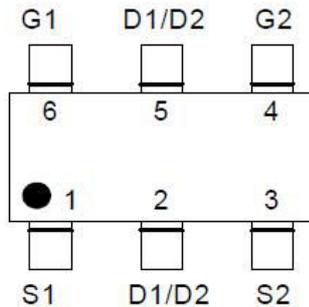




General Description

The HX8208 is a dual N-channel MOS Field Effect Transistor which uses advanced trench technology to provide excellent $R_{DS(on)}$, low gate charge and operation with low gate voltages. This device is suitable for use as a load switch.



Featuration

- $V_{DS(max)} = 20V$;
- $I_{D(max)} = 5.0A$;
- Low on-state resistance
 $R_{DS(on)} = 16m\Omega$ TYP. ($V_{GS} = 4.5V$)
 $R_{DS(on)} = 22m\Omega$ TYP. ($V_{GS} = 2.5V$)
- Lead free product is acquired;
- Surface Mount Package;

Applications

- Battery protection.
- Battery Powered Systems.
- Power Management in Notebook Computer
- Portable Equipment

Maximum Ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Value	Units	
Drain to Source Voltage	VDSS	20	V	
Gate to Source Voltage	VGSS	± 10	V	
Continuous Drain Current	25°C	ID	5.0	A
	85°C		4.0	A
Pulsed Drain Current	ID(pulse)	20	A	
Maximum Power Dissipation	25°C	PD	1.05	W
Operating Junction Temperature	TJ	+150	°C	
Storage Temperature	TSTG	-55--+150	°C	
Lead Temperature for Soldering Purposes (1/8" from case for 10 s)	TL	260	°C	



Electrical Characteristics (TA = 25°C)

Parameter	Symbol	Test Conditions	MIN.	TYP.	MAX.	Units
Drain-Source Breakdown Voltage	BVDSS	V _{GS} =0V, I _{DS} =250uA	19.5			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = 19.5V, V _{GS} =0V			1	uA
Gate Leakage Current	I _{GSS}	V _{GS} =±10V, V _{DS} =0V			±100	nA
Gate threshold voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D = 250μA	0.55	0.65	1.1	V
Drain to Source On-state Resistance	R _{DS(on)}	V _{GS} = 4.5V, I _D =3.0A		16	22	mΩ
		V _{GS} = 2.5V, I _D =2.0A		22	29	mΩ
Drain-Source Diode Forward Voltage	V _{SD}	I _S =2.8A, V _{GS} =0V		0.7	1.3	V

