

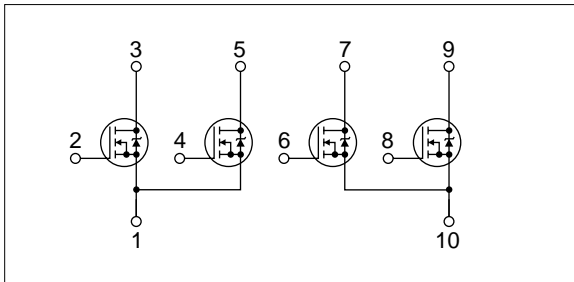
### Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V <sub>DSS</sub>	60	V
V <sub>GSS</sub>	±10	V
I <sub>D</sub>	±5	A
I <sub>D(pulse)</sub>	±20 (PW≤100μs, Du≤1%)	A
P <sub>T</sub>	4 (Ta=25°C)	W
	20 (Tc=25°C)	W
T <sub>ch</sub>	150	°C
T <sub>stg</sub>	-40 to +150	°C

### Electrical characteristics (Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
V <sub>(BR)DSS</sub>	60			V	I <sub>D</sub> =250μA, V <sub>GS</sub> =0V
I <sub>GSS</sub>			±500	nA	V <sub>GS</sub> =±10V
I <sub>DSS</sub>			250	μA	V <sub>DS</sub> =60V, V <sub>GS</sub> =0V
V <sub>TH</sub>	1.0		2.0	V	V <sub>DS</sub> =10V, I <sub>D</sub> =250μA
R <sub>e(yfs)</sub>	2.0			S	V <sub>DS</sub> =10V, I <sub>D</sub> =2.5A
R <sub>DS(ON)</sub>		0.15	0.20	Ω	V <sub>GS</sub> =10V, I <sub>D</sub> =2.5A
		0.23	0.28	Ω	V <sub>GS</sub> =4V, I <sub>D</sub> =2.5A
C <sub>iss</sub>		400		pF	V <sub>DS</sub> =25V,
C <sub>oss</sub>		160		pF	f=1.0MHz,
C <sub>rss</sub>		35		pF	V <sub>GS</sub> =0V
t <sub>d(on)</sub>		20		ns	I <sub>D</sub> =2.5A,
t <sub>r</sub>		25		ns	V <sub>DD</sub> ≐30V,
t <sub>d(off)</sub>		40		ns	R <sub>L</sub> =12Ω,
t <sub>f</sub>		20		ns	V <sub>GS</sub> =5V, see Fig. 3 on page 16.
V <sub>SD</sub>		1.0	1.5	V	I <sub>SD</sub> =5A, V <sub>GS</sub> =0V
t <sub>rr</sub>		150		ns	I <sub>SD</sub> =±100mA

### Equivalent circuit diagram



### Characteristic curves