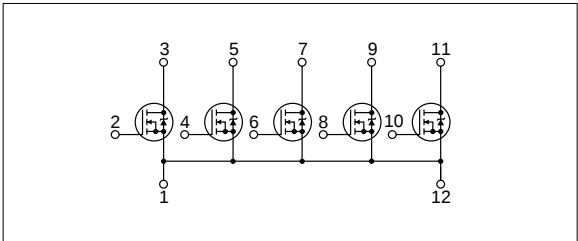


Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	200	V
V _{GSS}	±20	V
I _D	±7	A
I _D (pulse)	±15 (PW≤100μs, duty≤1%)	A
E _{AS} *	55	mJ
I _{AS} *	7	A
P _T	5 (Ta=25°C, with all circuits operating, without heatsink)	W
	35 (Tc=25°C, with all circuits operating, with infinite heatsink)	
θ _{J-a}	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{J-c}	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V _{ISO}	1000 (Between fin and lead pin, AC)	V _{rms}
T _{ch}	150	°C
T _{stg}	−40 to +150	°C

* : V_{DD}=25V, L=2mH, I_D=7A, unclamped, R_G=50Ω, see Fig. E on page 15.

Equivalent circuit diagram



Characteristic curves

Electrical characteristics (Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	200			V	I _D =100μA, V _{GS} =0V
I _{GSS}			±100	nA	V _{GS} =±20V
I _{DSS}			100	μA	V _{DS} =200V, V _{GS} =0V
V _{TH}	1.0		2.0	V	V _{DS} =10V, I _D =250μA
Re _(yfs)	4	7		S	V _{DS} =10V, I _D =3.5A
R _{DS(ON)}		280	350	mΩ	V _{GS} =10V, I _D =3.5A
		320	480	mΩ	V _{GS} =4V, I _D =3.5A
C _{iss}		420		pF	V _{DS} =10V, f=1.0MHz, V _{GS} =0V
C _{oss}		210		pF	
C _{rss}		90		pF	
td(on)		16		ns	I _D =3.5A, V _{DD} ≐100V, R _L =28.6Ω, V _{GS} =5V, see Fig. 3 on page 16.
tr		60		ns	
td(off)		100		ns	
tf		70		ns	
V _{SD}		1.0	1.5	V	I _{SD} =7A, V _{GS} =0V