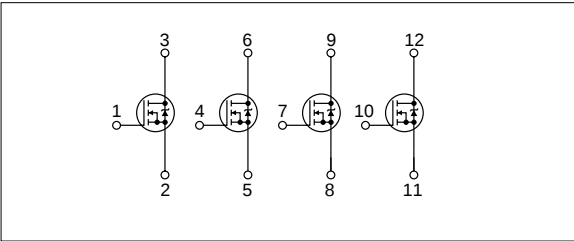


Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	200	V
V _{GSS}	±20	V
I _D	±10	A
I _D (pulse)	±40 (PW≤100μs, duty≤1%)	A
E _{AS} *	350	mJ
P _T	5 (Ta=25°C, with all circuits operating, without heatsink)	W
	70 (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}	1.79 (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=6mH, I_D=10A, 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} =60V, V _{GS} =0V
V _{TH}	1.0		2.0	V	V _{DS} =10V, I _D =250μA
Re _(yfs)	10	16		S	V _{DS} =10V, I _D =5A
R _{DS(ON)}		100	120	mΩ	V _{GS} =10V, I _D =5A
		110	135	mΩ	V _{GS} =4V, I _D =5A
C _{iss}		1500		pF	V _{DS} =10V, f=1.0MHz, V _{GS} =0V
C _{oss}		680		pF	
Cr _{ss}		330		pF	
td _(on)		30		ns	
t _r		80		ns	I _D =5A, V _{DD} ≐100V, R _L =10Ω, V _{GS} =5V, see Fig. 3 on page 16.
td _(off)		230		ns	
t _f		140		ns	
V _{SD}		0.9	1.5	V	I _{SD} =10A, V _{GS} =0V