

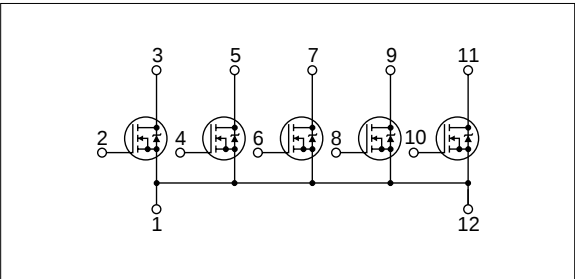
Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	60	V
V _{GSS}	±20	V
I _D	±4	A
I _D (pulse)	±8 (PW≤1ms)	A
E _{AS} *	1	mJ
P _T	5 (Ta=25°C, with all circuits operating, without heatsink)	W
	35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
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}=20V, L=1mH, I_D=1.2A, unclamped, see Fig. E on page 15.

Equivalent circuit diagram



Characteristic curves

Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	60			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}	2.0		4.0	V	V _{DS} =10V, I _D =250μA
Re _(yfs)	1.5	2.4		S	V _{DS} =10V, I _D =4A
R _{DS(ON)}		0.33	0.45	Ω	V _{GS} =10V, I _D =4A
C _{iss}		120		pF	V _{DS} =25V, f=1.0MHz,
C _{oss}		60		pF	V _{GS} =0V
t _{on}		115		ns	I _D =4A, V _{DD} ≐30V, V _{GS} =10V, see Fig. 3 on page 16.
t _{off}		35		ns	
V _{SD}		1.1	1.5	V	I _{SD} =4A
t _{rr}		100		ns	I _{SD} =±100mA