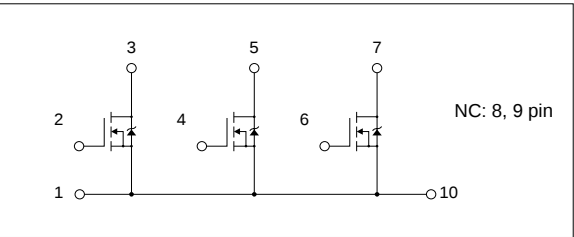


Absolute maximum ratings

Symbol	Ratings	Unit
V _{DSS}	305	V
V _{GSS}	±20	V
I _D	3	A
I _D (pulse)	6 (PW≤1ms, Du≤1%)	A
P _T	3.5 (Ta=25°C)	W
	15 (Tc=25°C)	W
θ _{J-a}	35.7 (with all circuits operating)	°C/W
θ _{J-c}	8.33 (with all circuits operating)	°C/W
T _{ch}	150	°C
T _{stg}	−40 to +150	°C

Equivalent circuit diagram



Electrical characteristics

Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	305			V	I _D =100μA, V _{GS} =0V
I _{GSS}			±100	nA	V _{GS} =±20V
I _{DSS}			100	μA	V _{DS} =350V, V _{GS} =0V
V _{TH}	2.0		4.0	V	V _{DS} =10V, I _D =1mA
Re _(yfs)		2.5		S	V _{DS} =10V, I _D =1.5A
R _{DS(ON)}		1.4	1.8	Ω	V _{GS} =10V, I _D =1.5A
C _{iss}		240		pF	V _{DS} =10V, f=1.0MHz, V _{GS} =0V
C _{oss}		120		pF	
C _{rss}		50		pF	
td(on)		10		ns	I _D =3A, V _{DD} ÷100V, R _L =33.3Ω, V _{GS} =10V, R _{GS} =50Ω see Fig. 3 on page 16.
t _r		30		ns	
td(off)		35		ns	
t _f		20		ns	
V _{SD}		1.1		V	I _{SD} =3A, V _{GS} =0V

Characteristic curves