

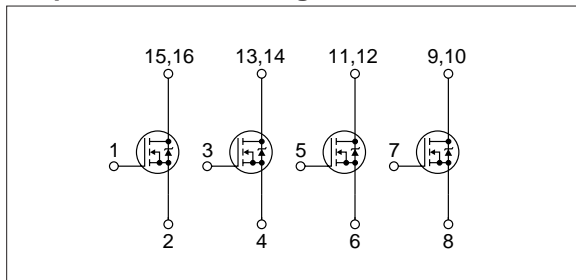
Absolute maximum ratings

($T_a=25^\circ\text{C}$)

Symbol	Ratings	Unit
V_{DSS}	100	V
V_{GSS}	± 20	V
I_D	± 2	A
$I_{D(\text{pulse})}$	± 5 ($PW \leq 100\mu\text{s}$, $D_u \leq 1\%$)	A
E_{AS}^*	2.7	mJ
P_T	3 ($T_a=25^\circ\text{C}$, 4-circuit operation)	W
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$

* : $V_{DD}=25\text{V}$, $L=1\text{mH}$, $I_L=2\text{A}$, unclamped, $R_G=50\Omega$, see Fig. E on page 15.

Equivalent circuit diagram



($T_a=25^\circ\text{C}$)

Symbol	Specification			Unit	Conditions
	min	typ	max		
$V_{(BR)DSS}$	100			V	$I_D=100\mu\text{A}$, $V_{GS}=0\text{V}$
I_{GSS}			± 100	nA	$V_{GS}=\pm 20\text{V}$
I_{DSS}			100	μA	$V_{DS}=100\text{V}$, $V_{GS}=0\text{V}$
V_{TH}	1.0		2.0	V	$V_{DS}=10\text{V}$, $I_D=250\mu\text{A}$
$R_{e(yfs)}$	1.5			S	$V_{DS}=10\text{V}$, $I_D=1.0\text{A}$
$R_{DS(ON)}$		0.60	0.80	Ω	$V_{GS}=10\text{V}$, $I_D=1.0\text{A}$
		0.75	0.95	Ω	$V_{GS}=4\text{V}$, $I_D=1.0\text{A}$
C_{iss}		160		pF	$V_{DS}=25\text{V}$,
C_{oss}		40		pF	$f=1.0\text{MHz}$,
C_{rss}		10		pF	$V_{GS}=0\text{V}$
$t_{d(on)}$		7		ns	$I_D=1\text{A}$, $V_{DD} \div 50\text{V}$,
t_r		20		ns	$R_L=50\Omega$,
$t_{d(off)}$		35		ns	$V_{GS}=10\text{V}$,
t_f		30		ns	see Fig. 3 on page 16.
V_{SD}		1.0	1.5	V	$I_{SD}=2\text{A}$, $V_{GS}=0\text{V}$
t_{rr}		140		ns	$I_{SD}=\pm 100\text{mA}$

Characteristic curves