

Absolute maximum ratings

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

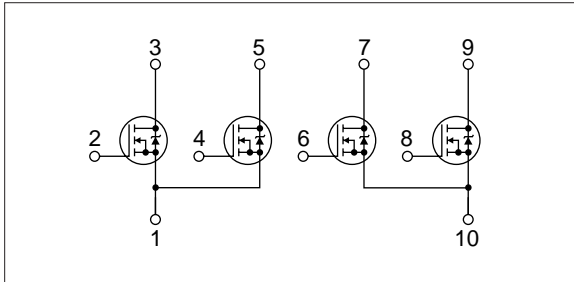
Symbol	Ratings	Unit
V_{DSS}	100	V
V_{GSS}	± 20	V
I_D	± 3	A
$I_{D(\text{pulse})}$	± 12 ($PW \leq 100\mu\text{s}$, $D_u \leq 1\%$)	A
P_T	4 ($T_a=25^\circ\text{C}$)	W
	20 ($T_c=25^\circ\text{C}$)	W
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$

Electrical characteristics

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

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	$V_{DS}=10\text{V}$, $I_D=250\mu\text{A}$
$R_{e(yfs)}$	2.0		3.0	S	$V_{DS}=10\text{V}$, $I_D=1.5\text{A}$
$R_{DS(ON)}$		0.35	0.50	Ω	$V_{GS}=10\text{V}$, $I_D=1.5\text{A}$
		0.40	0.60	Ω	$V_{GS}=4\text{V}$, $I_D=1.5\text{A}$
C_{iss}		240		pF	$V_{DS}=25\text{V}$,
C_{oss}		60		pF	$f=1.0\text{MHz}$,
C_{rSS}		12		pF	$V_{GS}=0\text{V}$
V_{SD}		1.0	1.5	V	$I_{SD}=3\text{A}$, $V_{GS}=0\text{V}$
t_{rr}		150		ns	$I_{SD}=\pm 100\text{mA}$

Equivalent circuit diagram



Characteristic curves