

Absolute maximum ratings

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

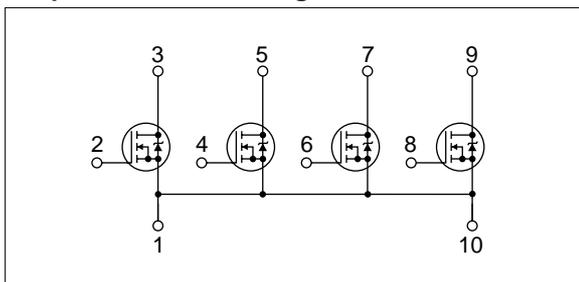
Symbol	Ratings	Unit
V_{DSS}	60	V
V_{GSS}	± 20	V
I_D	± 4	A
$I_D(\text{pulse})$	± 8 ($PW \leq 100\mu\text{s}$, $D_u \leq 1\%$)	A
P_T	4 ($T_a=25^\circ\text{C}$)	W
	20 ($T_c=25^\circ\text{C}$)	W
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-40 to +150	$^\circ\text{C}$

Electrical characteristics

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

Symbol	Specification			Unit	Conditions
	min	typ	max		
$V_{(BR)DSS}$	60			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	$V_{DS}=60\text{V}$, $V_{GS}=0\text{V}$
V_{TH}	2.0		4.0	V	$V_{DS}=10\text{V}$, $I_D=250\mu\text{A}$
$R_{e(yfs)}$	1.2			S	$V_{DS}=10\text{V}$, $I_D=2\text{A}$
$R_{DS(ON)}$		0.33	0.45	Ω	$V_{GS}=10\text{V}$, $I_D=2\text{A}$
C_{iss}		120		pF	$V_{DS}=25\text{V}$, $f=1.0\text{MHz}$, $V_{GS}=0\text{V}$
C_{oss}		60		pF	
C_{rss}		14		pF	
V_{SD}		1.1	1.5	V	$I_{SD}=4\text{A}$, $V_{GS}=0\text{V}$
t_{rr}		100		ns	$I_{SD}=\pm 100\text{mA}$

Equivalent circuit diagram



Characteristic curves