

### Absolute maximum ratings

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

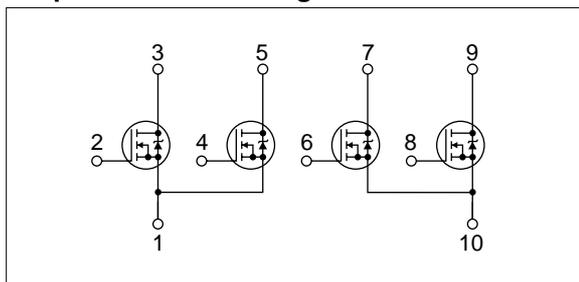
Symbol	Ratings	Unit
$V_{DSS}$	100	V
$V_{GSS}$	$\pm 20$	V
$I_D$	$\pm 3$	A
$I_{D(\text{pulse})}$	$\pm 12$ ( $PW \leq 100\mu\text{s}$ , $D_u \leq 1\%$ )	A
$P_T$	4 ( $T_a=25^\circ\text{C}$ )	W
	20 ( $T_c=25^\circ\text{C}$ )	W
$T_{ch}$	150	$^\circ\text{C}$
$T_{stg}$	-40 to +150	$^\circ\text{C}$

### Electrical characteristics

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

Symbol	Specification			Unit	Conditions
	min	typ	max		
$V_{(BR)DSS}$	100			V	$I_D=100\mu\text{A}$ , $V_{GS}=0\text{V}$
$I_{GSS}$			$\pm 100$	nA	$V_{GS}=\pm 20\text{V}$
$I_{DSS}$			100	$\mu\text{A}$	$V_{DS}=100\text{V}$ , $V_{GS}=0\text{V}$
$V_{TH}$	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	$\Omega$	$V_{GS}=10\text{V}$ , $I_D=1.5\text{A}$
		0.40	0.60	$\Omega$	$V_{GS}=4\text{V}$ , $I_D=1.5\text{A}$
$C_{iss}$		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