

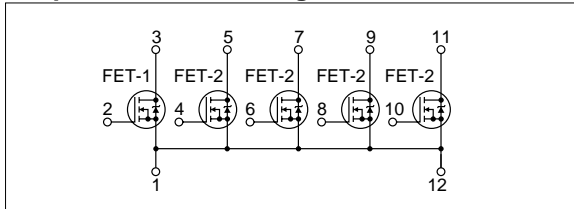
Absolute maximum ratings

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

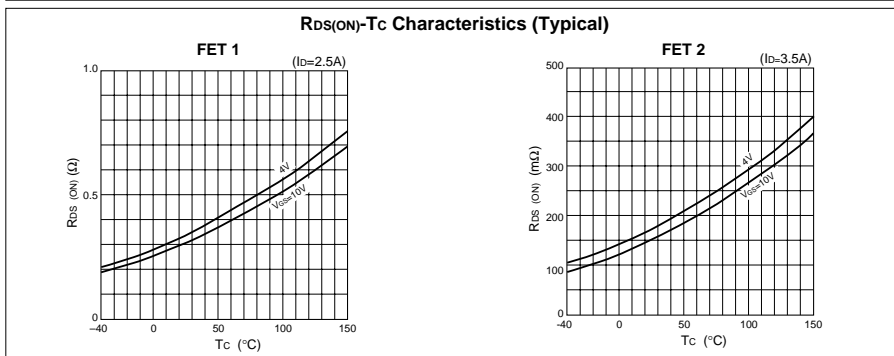
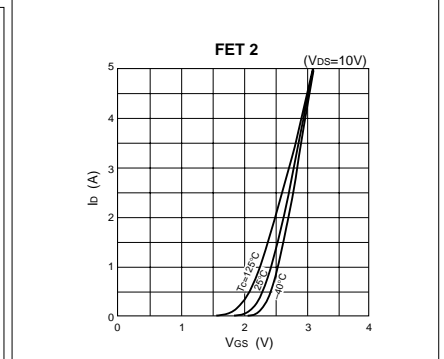
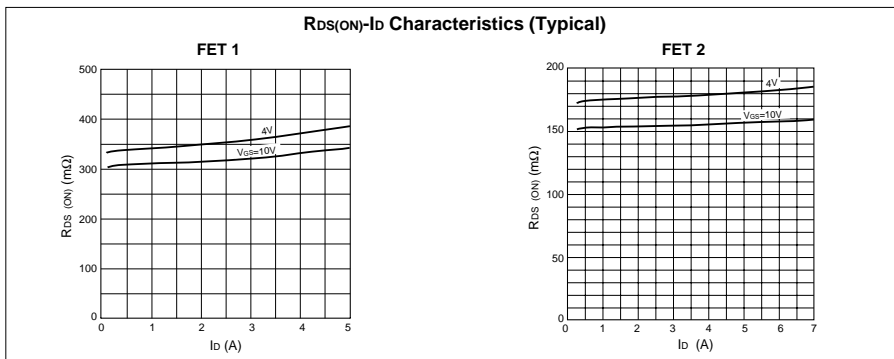
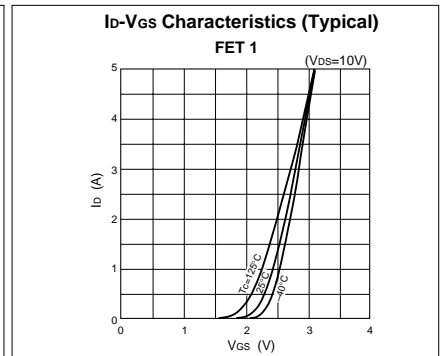
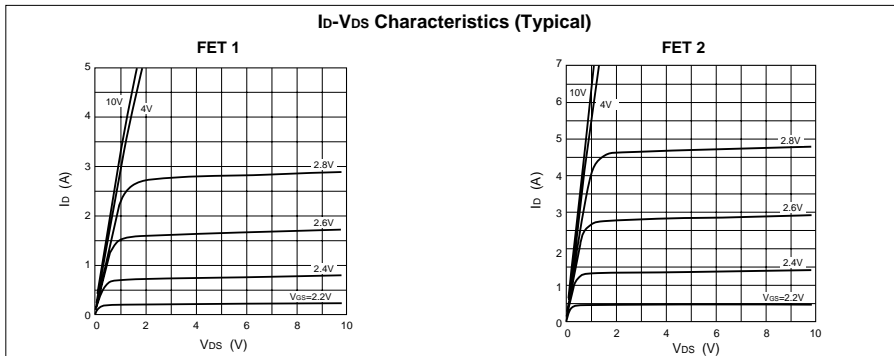
Symbol	Ratings		Unit
	FET 1	FET 2	
V_{DSS}	150		V
V_{GSS}	+20, -10		V
I_D	± 5	± 7	A
I_D (pulse)*	± 10	± 15	A
P_T	5 ($T_a=25^\circ\text{C}$, with all circuits operating, without heatsink)		W
	35 ($T_c=25^\circ\text{C}$, with all circuits operating, with infinite heatsink)		W
θ_{j-a}	25 (Junction-Air, $T_a=25^\circ\text{C}$, with all circuits operating)		$^\circ\text{C}/\text{W}$
θ_{j-c}	3.57 (Junction-Case, $T_c=25^\circ\text{C}$, with all circuits operating)		$^\circ\text{C}/\text{W}$
V_{ISO}	1000 (Between fin and lead pin, AC)		Vrms
T_{ch}	150		$^\circ\text{C}$
T_{stg}	-40 to +150		$^\circ\text{C}$

* : $PW \leq 100\mu\text{s}$, duty $\leq 50\%$

Equivalent circuit diagram



Characteristic curves



Electrical characteristics

(Ta=25°C)

Symbol	FET 1					FET 2				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
V(BR)DSS	150			V	I _D =100μA, V _{GS} =0V	150			V	I _D =100μA, V _{GS} =0V
I _{GSS}			100	nA	V _{GS} =20V			100	nA	V _{GS} =20V
I _{DSS}			100	μA	V _{DS} =150V, V _{GS} =0V			100	μA	V _{DS} =150V, V _{GS} =0V
V _{TH}	1.0		2.0	V	V _{DS} =10V, I _D =250μA	1.0		2.0	V	V _{DS} =10V, I _D =250μA
Re(yfs)	3	5.5		S	V _{DS} =10V, I _D =2.5A	4	9		S	V _{DS} =10V, I _D =3.5A
R _{DS(ON)}		330	440	mΩ	V _{GS} =10V, I _D =2.5A		150	200	mΩ	V _{GS} =10V, I _D =3.5A
			370	480	mΩ	V _{GS} =4V, I _D =2.5A		170	230	mΩ
C _{iss}		380		pF	V _{DS} =10V, f=1.0MHz,		870		pF	V _{DS} =10V, f=1.0MHz,
C _{oss}		95		pF	V _{GS} =0V		320		pF	V _{GS} =0V
C _{rss}		25		pF	V _{GS} =0V		210		pF	V _{GS} =0V
t _{d(on)}		25		ns	I _D =2.5A,		25		ns	I _D =3.5A,
t _r		50		ns	V _{DD} ≐70V,		55		ns	V _{DD} ≐70V,
t _{d(off)}		55		ns	R _L =28Ω,		80		ns	R _L =20Ω, V _{GS} =5V,
t _f		40		ns	V _{GS} =5V, see Fig.3 on page 16.		50		ns	see Fig.3 on page 16.
V _{SD}		1.1	1.5	V	I _{SD} =5A, V _{GS} =0V		1.0	1.5	V	I _{SD} =7A, V _{GS} =0V
t _{rr}		180		ns	I _F =±100mA		500		ns	I _F =±100mA

Characteristic curves

