

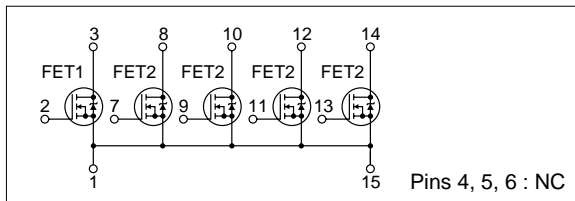
Absolute maximum ratings

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

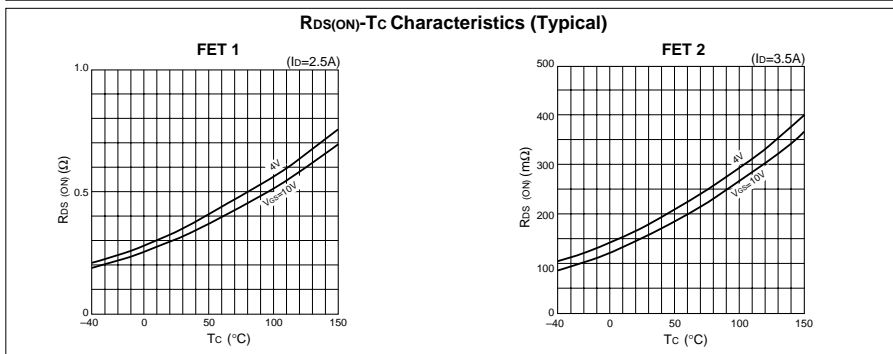
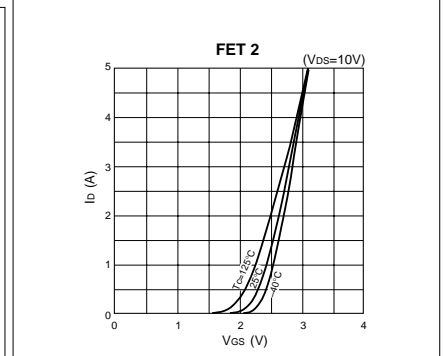
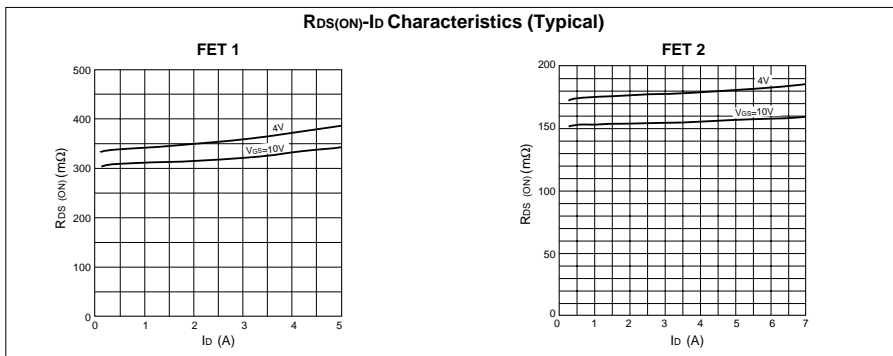
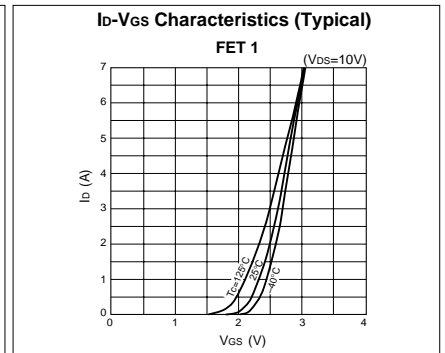
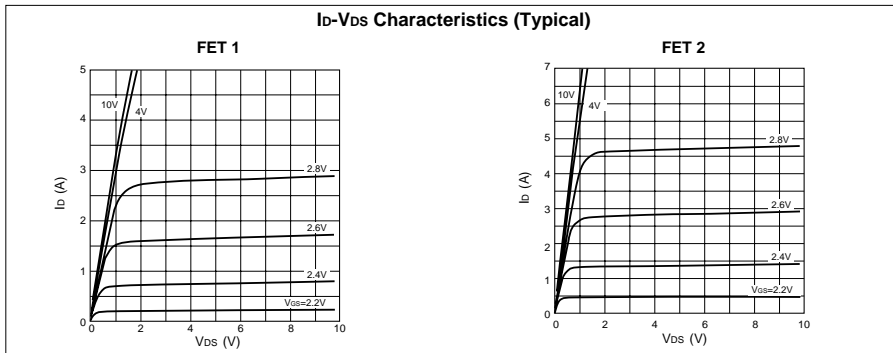
Symbol	Ratings		Unit
	FET 1	FET 2	
V_{bss}	150		V
V_{gss}	+20, -10		V
I_D	± 5	± 7	A
I_D (pulse)*1	± 10	± 15	A
P_T	5 ($T_a=25^\circ\text{C}$, with all circuits operating, without heatsink)		W
	43 ($T_c=25^\circ\text{C}$, with all circuits operating, with infinite heatsink)		W
θ_{j-a}	25 (Junction-Air, $T_a=25^\circ\text{C}$, with all circuits operating)		$^\circ\text{C}/\text{W}$
θ_{j-c}	2.91 (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	Id=100μA, VGS=0V	150			V	Id=100μA, VGS=0V
IGSS			100	nA	VGS=20V			100	nA	VGS=20V
IDSS			100	μA	VDS=150V, VGS=0V			100	μA	VDS=150V, VGS=0V
VTH	1.0		2.0	V	VDS=10V, Id=250μA	1.0		2.0	V	VDS=10V, Id=250μA
Re(yfs)	3	5.5		S	VDS=10V, Id=2.5A	4	9		S	VDS=10V, Id=3.5A
RDS(ON)		330	440	mΩ	VGS=10V, Id=2.5A	150	200	mΩ		VGS=10V, Id=3.5A
		370	480	mΩ	VGS=4V, Id=2.5A	170	230	mΩ		VGS=4V, Id=3.5A
Ciss		380		pF	VDS=10V, f=1.0MHz,		870		pF	VDS=10V, f=1.0MHz,
Coss		95		pF	VGS=0V		320		pF	VGS=0V
Crss		25		pF	VGS=0V		210		pF	VGS=0V
td(on)		25		ns	Id=2.5A, VDD≐70V, RL=28Ω,		25		ns	Id=3.5A, VDD≐70V, RL=20Ω,
tr		50		ns	VGS=5V, see Fig.3 on page 16.		55		ns	VGS=5V, see Fig.3 on page 16.
td(off)		55		ns			80		ns	
tf		40		ns			50		ns	
VSD		1.1	1.5	V	ISD=5A, VGS=0V	1.0	1.5	V		ISD=7A, VGS=0V
trr		180		ns	IF=±100mA	500			ns	IF=±100mA

Characteristic curves

