

Absolute maximum ratings

(Ta=25°C)

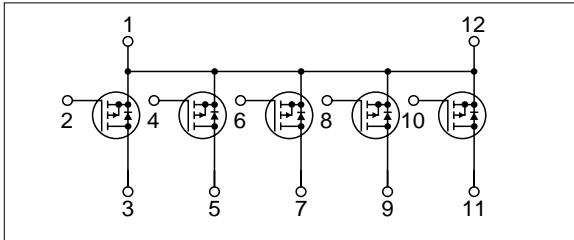
Symbol	Ratings	Unit
V _{DSS}	-60	V
V _{GSS}	±20	V
I _D	-5	A
I _D (pulse)	-10 (PW≤1ms, duty≤25%)	A
P _T	5 (Ta=25°C, with all circuits operating, without heatsink)	W
	30 (Tc=25°C, with all circuits operating, with infinite heatsink)	
θ _{j-a}	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{j-c}	4.17 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V _{ISO}	1000 (Between fin and lead pin, AC)	V _{rms}
T _{ch}	150	°C
T _{stg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	-60			V	I _D =-100μA, V _{GS} =0V
I _{GSS}			±100	nA	V _{GS} =±20V
I _{DSS}			-100	μA	V _{DS} =-60V, V _{GS} =0V
V _{TH}	-1.0		-2.0	V	V _{DS} =-10V, I _D =-250μA
Re(yfs)	4	6		S	V _{DS} =-10V, I _D =-3A
R _{DS(ON)}		0.14	0.22	Ω	V _{GS} =-10V, I _D =-3A
C _{iss}		790		pF	V _{DS} =-10V, f=1.0MHz, V _{GS} =0V
C _{oss}		310		pF	
Cr _{ss}		90		pF	
td(on)		40		ns	I _D =-3A, V _{DD} =-20V, R _L =6.67Ω, V _{GS} =-5V, see Fig. 4 on page 16.
tr		110		ns	
td(off)		160		ns	
tf		80		ns	
V _{SD}	-1.0	-1.5		V	
t _{rr}		85		ns	I _{SD} =3A, V _{GS} =0V, di/dt=100A/μs

Equivalent circuit diagram



Characteristic curves

