

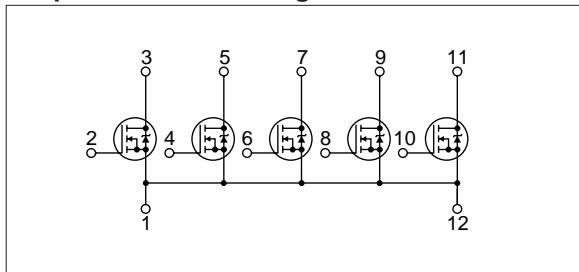
Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	100	V
V _{GSS}	±10	V
I _D	±5	A
I _{D(pulse)}	±10 (PW≤1ms)	A
E _{AS*}	60	mJ
P _T	5 (Ta=25°C, with all circuits operating, without heatsink) 35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
θ _{j-a}	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{j-c}	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V _{iso}	1000 (Between fin and lead pin, AC)	Vrms
T _{ch}	150	°C
T _{tsg}	-40 to +150	°C

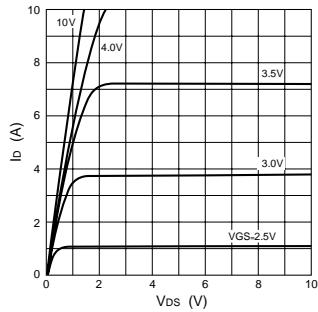
*: V_{DD}=20V, L=10mH, I_D=3A, unclamped, see Fig. E on page 15.

Equivalent circuit diagram

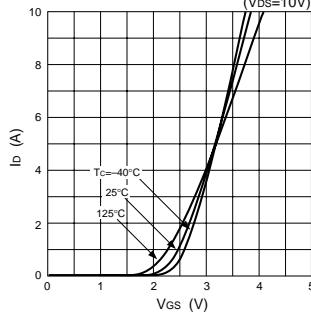


Characteristic curves

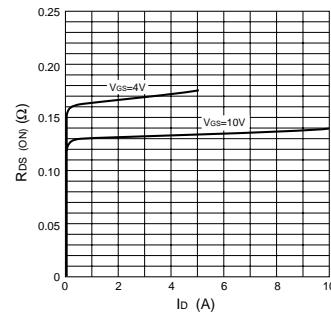
I_D-V_{DS} Characteristics (Typical)



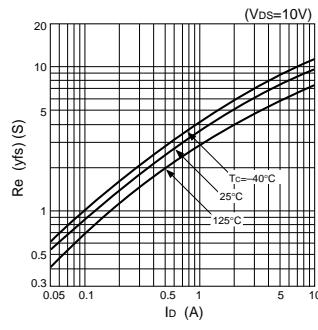
I_D-V_{GS} Characteristics (Typical)



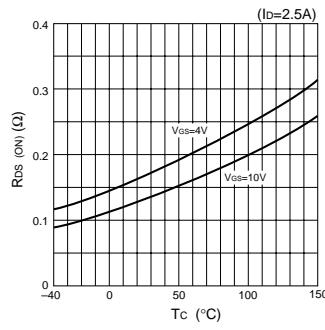
R_{D(on)}-I_D Characteristics (Typical)



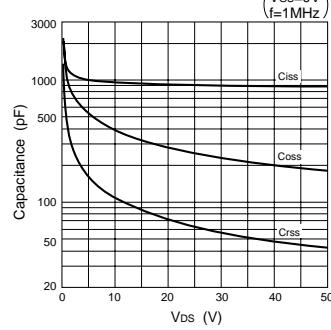
R_{e(yfs)}-I_D Characteristics (Typical)



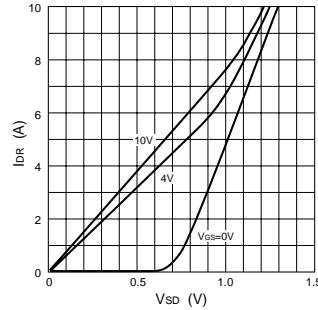
R_{D(on)}-T_c Characteristics (Typical)



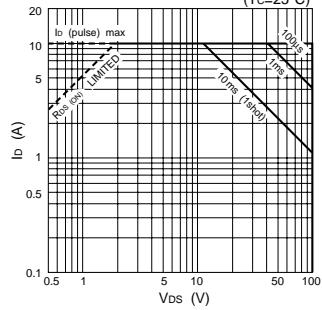
Capacitance-V_{DS} Characteristics (Typical) (V_{GS}=0V, f=1MHz)



I_{DR}-V_{SD} Characteristics (Typical)



Safe Operating Area (SOA)



P_T-T_a Characteristics

