

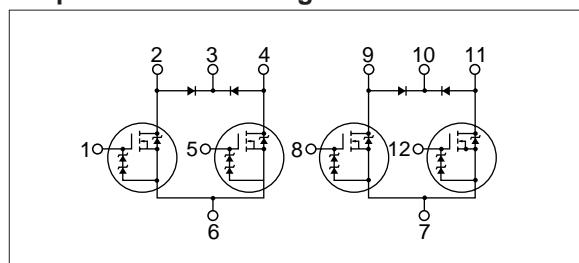
Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	60	V
V _{GSS}	±20	V
I _D	±3	A
I _{D(pulse)}	±6 (PW≤1ms, Du≤1%)	A
E _{AS*}	6.8	mJ
I _{AS}	3	A
P _T	4 (Ta=25°C, with all circuits operating, without heatsink) 28 ((Tc=25°C, with all circuits operating, with infinite heatsink))	W
θ _{j-a}	31.2 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{j-c}	4.46 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
T _{ch}	150	°C
T _{stg}	-40 to +150	°C

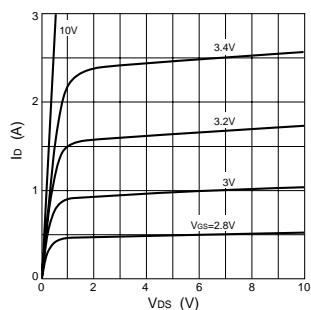
* : V_{DD}=20V, L=1mH, I_L=3A, unclamped, see Fig. E on page 15.

■ Equivalent circuit diagram

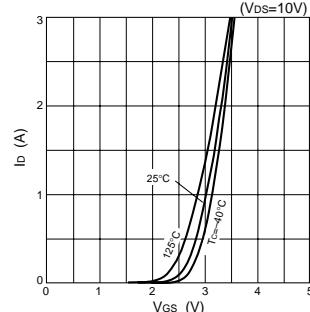


Characteristic curves

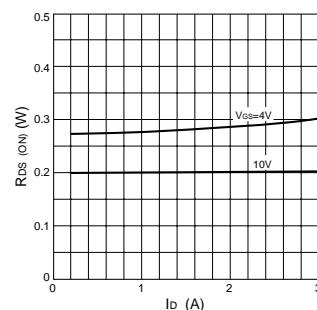
I_D-V_{Ds} Characteristics (Typical)



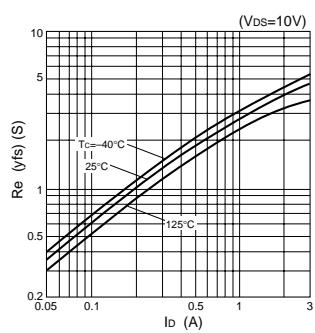
I_D-V_{Gs} Characteristics (Typical)



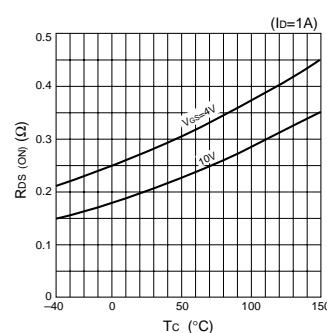
R_{Ds(on)}-I_D Characteristics (Typical)



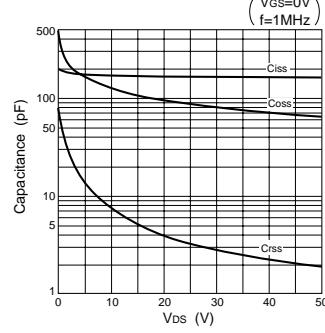
R_{e(yfs)}-I_D Characteristics (Typical)



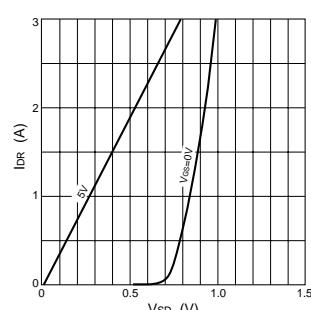
R_{Ds(on)}-T_c Characteristics (Typical)



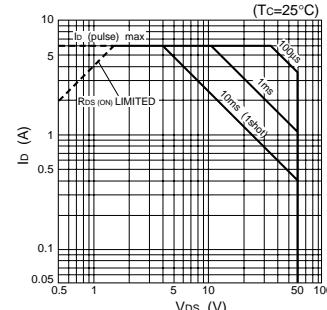
Capacitance-V_{Ds} Characteristics (Typical)



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



Safe Operating Area (SOA)



P_T-T_a Characteristics

