

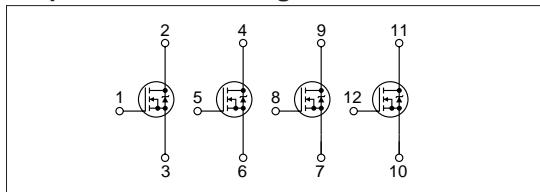
## Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V <sub>DSS</sub>	100	V
V <sub>GSS</sub>	±20	V
I <sub>D</sub>	±5	A
I <sub>D(pulse)</sub>	±10 (PW≤1ms)	A
E <sub>AS*</sub>	30	mJ
P <sub>T</sub>	5 (Ta=25°C, with all circuits operating, without heatsink) 35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
θ <sub>j-a</sub>	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ <sub>j-c</sub>	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V <sub>iso</sub>	1000 (Between fin and lead pin, AC)	Vrms
T <sub>ch</sub>	150	°C
T <sub>tsg</sub>	-40 to +150	°C

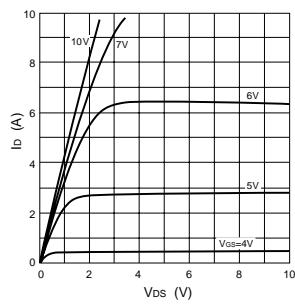
\* : V<sub>DD</sub>=20V, L=10mH, I<sub>D</sub>=2.5A, unclamped, see Fig. E on page 15.

## ■ Equivalent circuit diagram

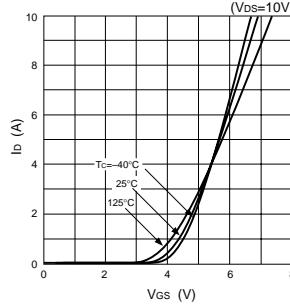


## Characteristic curves

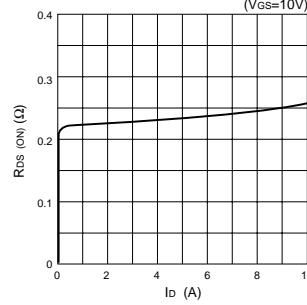
I<sub>D</sub>-V<sub>Ds</sub> Characteristics (Typical)



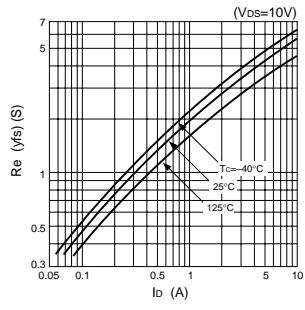
I<sub>D</sub>-V<sub>Gs</sub> Characteristics (Typical)



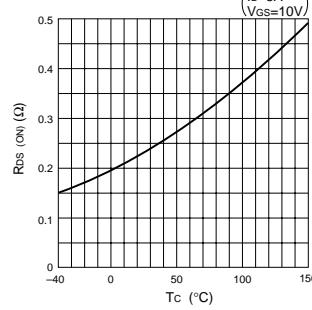
R<sub>Ds(ON)</sub>-I<sub>D</sub> Characteristics (Typical)



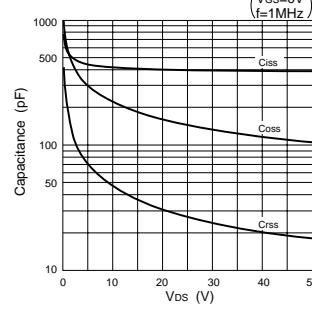
R<sub>e(yfs)</sub>-I<sub>D</sub> Characteristics (Typical)



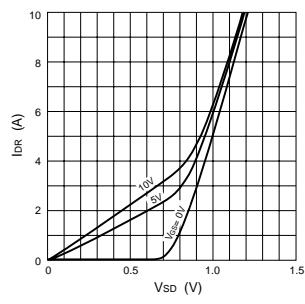
R<sub>Ds(ON)</sub>-T<sub>c</sub> Characteristics (Typical)



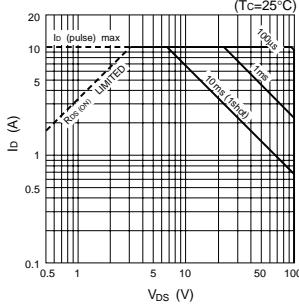
Capacitance-V<sub>Ds</sub> Characteristics (Typical)



I<sub>DR</sub>-V<sub>Ds</sub> Characteristics (Typical)



Safe Operating Area (SOA)



P<sub>T</sub>-T<sub>a</sub> Characteristics

