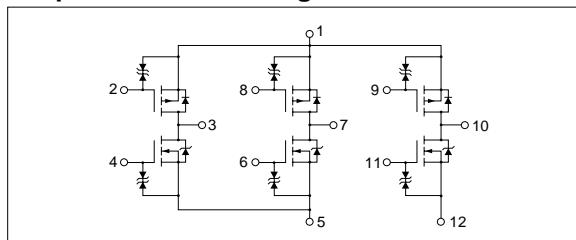


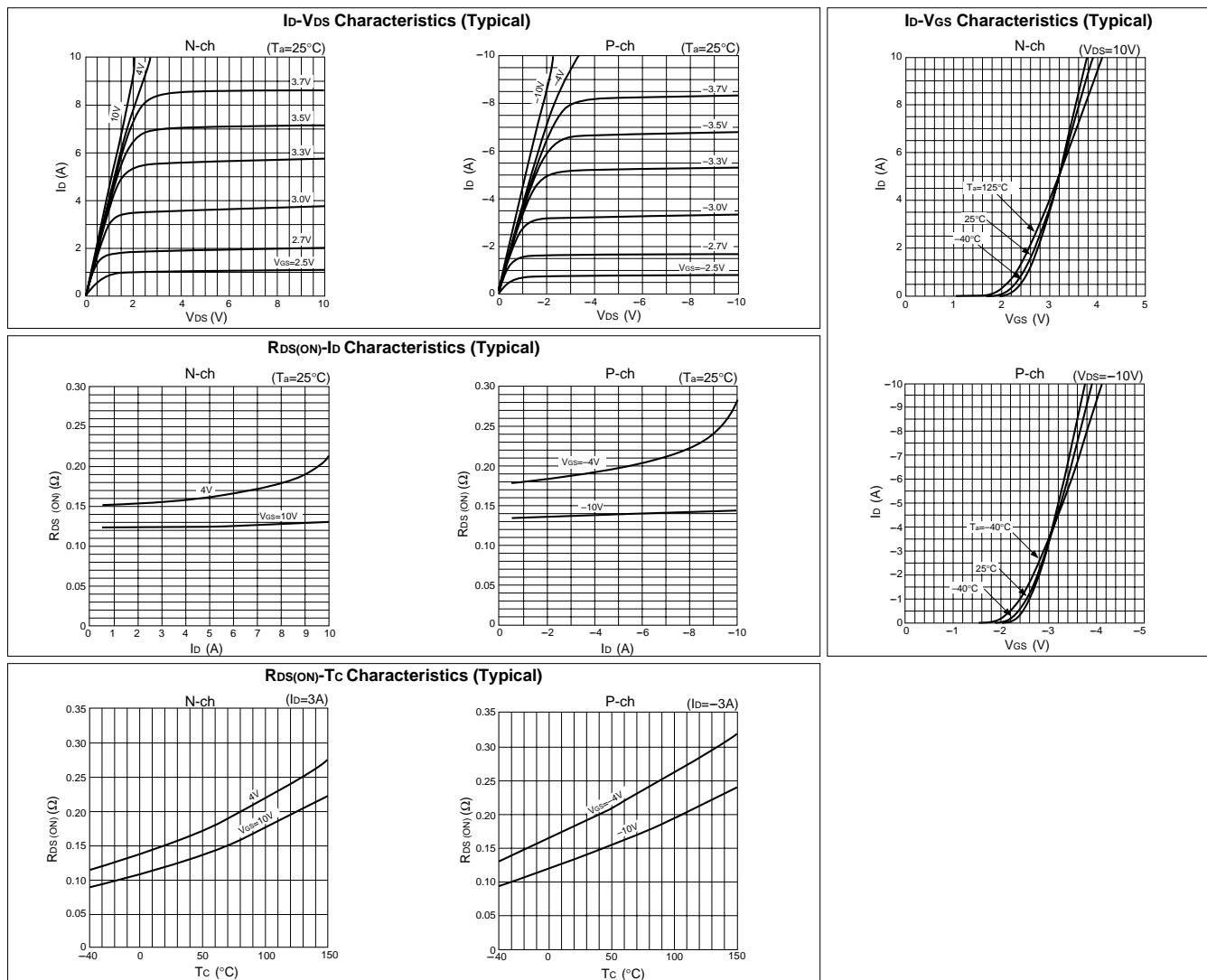
### Absolute maximum ratings

Symbol	Ratings		(Ta=25°C)
	N channel	P channel	Unit
V <sub>DSS</sub>	60	-60	V
V <sub>GSS</sub>	±20	±20	V
I <sub>D</sub>	6	-6	A
I <sub>D(pulse)</sub>	10 (PW≤1ms, duty≤25%)	-10 (PW≤1ms, duty≤25%)	A
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>stg</sub>	-40 to +150		°C

### ■Equivalent circuit diagram



### Characteristic curves



## Electrical characteristics

(Ta=25°C)

Symbol	N channel						P channel					
	Specification			Unit	Conditions	Specification			Unit	Conditions		
	min	typ	max			min	typ	max				
V(BR)DSS	60			V	Id=100µA, Vgs=0V	-60			V	Id=-100µA, Vgs=0V		
IGSS			±10	µA	Vgs=±20V				µA	Vgs=±20V		
IBSS			100	µA	Vds=60V, Vgs=0V				µA	Vds=−60V, Vgs=0V		
VTH	1.0		2.0	V	Vds=10V, Id=250µA	-1.0			V	Vds=−10V, Id=−250µA		
Re(yfs)		5.5		S	Vds=10V, Id=3A		6		S	Vds=−10V, Id=−3A		
RDS(ON)			0.22	Ω	Vgs=4V, Id=3A			0.22	Ω	Vgs=−10V, Id=−3A		
Ciss		320		pF	Vds=10V, f=1.0MHz, Vgs=0V		790		pF	Vds=−10V, f=1.0MHz, Vgs=0V		
Coss		160		pF			310		pF			
Crss		35		pF			90		pF			
td(on)		16		ns	Id=3A, Vdd=20V, RL=6.67Ω, Vgs=5V, see Fig. 3 on page 16.		40		ns	Id=−3A, Vdd=20V, RL=6.67Ω, Vgs=−5V, see Fig. 4 on page 16.		
tr		65		ns			110		ns			
td(off)		70		ns			160		ns			
tr		45		ns			80		ns			
VSD		1.2		V	Isd=6A, Vgs=0V		-1.1		V	Isd=−6A, Vgs=0V		
trr		65		ns	Isd=3A, Vgs=0V, di/dt=100A/µs		85		ns	Isd=−3A, Vgs=0V, di/dt=100A/µs		

## Characteristic curves

