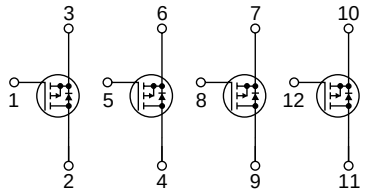
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V_{DSS}	–60	V
V_{GSS}	∓20	V
I_D	∓5	A
$I_{D(pulse)}$	∓10 (PW≤1ms)	A
P_T	5 (Ta=25°C, with all circuits operating, without heatsink)	W
	35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
θj-a	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θj-c	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V_{ISO}	1000 (Between fin and lead pin, AC)	Vrms
Tch	150	°C
Tstg	–40 to +150	°C

Electrical characteristics (Ta=25°C)

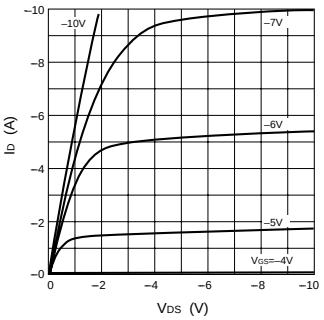
Symbol	Specification			Unit	Conditions
	min	typ	max		
$V_{(BR)DSS}$	–60			V	I_D=–250μA, V_{GS}=0V
I_{GSS}			∓500	nA	V_{GS}=∓20V
I_{DSS}			–250	μA	V_{DS}=–60V, V_{GS}=0V
V_{TH}	–2.0		–4.0	V	V_{DS}=–10V, I_D=–250μA
$Re_{(yfs)}$	2.3	3.5		S	V_{DS}=–10V, I_D=–5A
$R_{DS(ON)}$		0.22	0.30	Ω	V_{GS}=–10V, I_D=–5A
Ciss		570		pF	V_{DS}=–25V, f=1.0MHz,
Coss		360		pF	V_{GS}=0V
ton		100		ns	I_D=–5A, V_{DD}≒–30V, V_{GS}=–10V,
toff		60		ns	see Fig. 4 on page 16.
V_{SD}		–4.5	–5.5	V	I_{SD}=–5A
trr		150		ns	I_{SD}= ∓100mA

■Equivalent circuit diagram

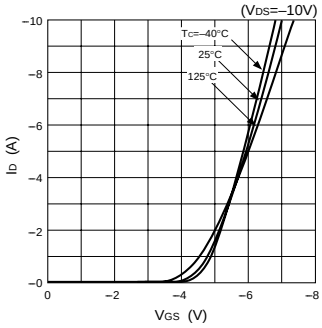


Characteristic curves

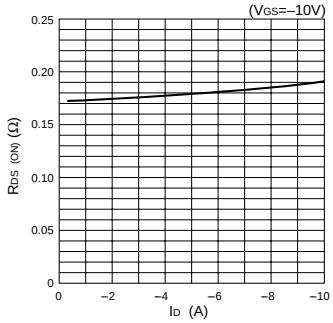
I_D-V_{DS} Characteristics (Typical)



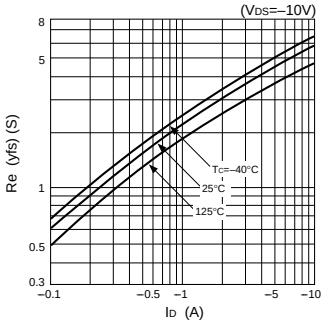
I_D-V_{GS} Characteristics (Typical)



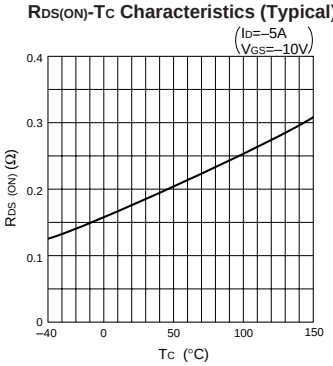
$R_{DS(ON)}$-I_D Characteristics (Typical)



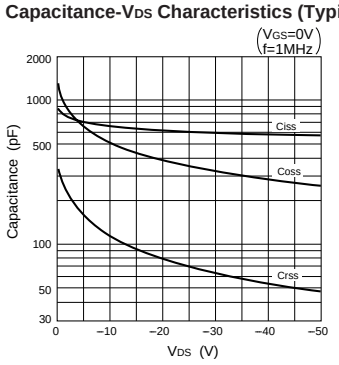
$Re_{(yfs)}$-I_D Characteristics (Typical)



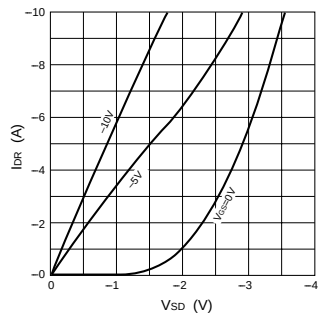
$R_{DS(ON)}$-T_C Characteristics (Typical)



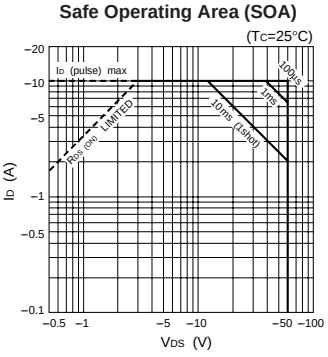
Capacitance-V_{DS} Characteristics (Typical)



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



Safe Operating Area (SOA)



P_T-T_a Characteristics

