F 25 A 12 GF

Elektrische Eigenschaften / Electrical properties

Höchstzulässige Werte / Maximum rated values

V_{CES}		1200	V
V_{ECS}		5	V
I_C		25	A
I_{CRM}	$t_p = 1$ ms	50	A
P_{tot}	$t_C = 25°C$	200	W
V_{GE}		20	V
V_{EG}		20	V

Charakteristische Werte / Characteristic values

$v_{CE\ sat}$	$i_{CM} = 25$ A,	$v_{GE} = 15$ V,	$t_{vj} = 25°C$	typ.	3	V
	$i_{CM} = 25$ A,	$v_{GE} = 15$ V,	$t_{vj} = 25°C$	max.	4	V
$v_{GE\ (th)}$	$v_{CE} = 5$ V,	$i_C = 25$ mA,	$t_{vj} = 25°C$	min.	3	V
	$v_{CE} = 5$ V,	$i_C = 25$ mA,	$t_{vj} = 25°C$	max.	6	V
C_{ies}	$v_{CE} = 10$ V,	$v_{GE} = 0$ V,				
	$f_o = 1$ MHz,	$t_{vj} = 25°C$,		typ.	3,2	nF
i_{CES}	$v_{CE} = 1200$ V,	$v_{GE} = 0$ V,	$t_{vj} = 25°C$	typ.	0,2	mA
	$v_{CE} = 1200$ V,	$v_{GE} = 0$ V,	$t_{vj} = 125°C$	typ.	1	mA
i_{GES}	$v_{GE} = 20$ V,	$t_{vj} = 25°C$,		typ.	50	nA
	$v_{GE} = 20$ V,	$t_{vj} = 25°C$,		max.	500	nA
i_{EGS}	$v_{EG} = 20$ V,	$t_{vj} = 25°C$,		typ.	50	nA
	$v_{EG} = 20$ V,	$t_{vj} = 25°C$,		max.	500	nA
t_{on}	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$R_G = 51\ \Omega$,	$t_{vj} = 25°C$	typ.	0,4	µs
	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$R_G = 51\ \Omega$,	$t_{vj} = 125°C$	typ.	0,5	µs
t_s	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$v_{LR} = 15$ V,				
	$R_G = 51\ \Omega$,	$t_{vj} = 25°C$		typ.	0,5	µs
	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$v_{LR} = 15$ V,				
	$R_G = 51\ \Omega$,	$t_{vj} = 125°C$		typ.	0,6	µs
t_f	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$v_{LR} = 15$ V,				
	$R_G = 51\ \Omega$,	$t_{vj} = 25°C$		typ.	0,2	µs
	$i_{CM} = 25$ A,	$v_{CE} = 600$ V,				
	$v_{LF} = 15$ V,	$v_{LR} = 15$ V,				
	$R_G = 51\ \Omega$,	$t_{vj} = 125°C$		typ.	0,25	µs

Thermische Eigenschaften / Thermal properties

R_{thJC}	DC	0,63	°C/W
$t_{vj\ max}$		150	°C
$t_{vj\ op}$		- 40 / + 150	°C
t_{stg}		- 40 / + 125	°C

Mechanische Eigenschaften / Mechanical properties

G	4,6 g