

Elektrische Eigenschaften

Electrical properties

Höchstzulässige Werte

Maximum rated values

V_{CES}		1200	V
V_{ECS}		5	V
I_C		15	A
I_{CRM}	$t_p = 1 \text{ ms}$	30	A
P_{tot}	$t_C = 25^\circ\text{C}$	150	W
V_{GE}		20	V
V_{EG}		20	V

Thermische Eigenschaften

Thermal properties

R_{thJC} DC 0,83 °C/W

$t_{vj \text{ max}}$ 150 °C
 $t_{vj \text{ op}}$ - 40 / + 150 °C
 t_{stg} - 40 / + 125 °C

Mechanische Eigenschaften

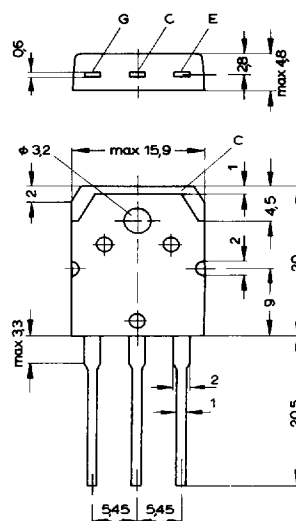
Mechanical properties

G 4,6 g

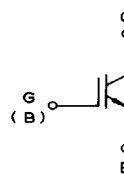
Charakteristische Werte

Characteristic values

$V_{CE \text{ sat}}$	$i_{CM} = 15 \text{ A}, V_{GE} = 15 \text{ V}, t_{vj} = 25^\circ\text{C}$	typ.	3	V
	$i_{CM} = 15 \text{ A}, V_{GE} = 15 \text{ V}, t_{vj} = 25^\circ\text{C}$	max.	4	V
$V_{GE \text{ (th)}}$	$V_{CE} = 5 \text{ V}, i_C = 15 \text{ mA}, t_{vj} = 25^\circ\text{C}$	min.	3	V
	$V_{CE} = 5 \text{ V}, i_C = 15 \text{ mA}, t_{vj} = 25^\circ\text{C}$	max.	6	V
C_{ies}	$V_{CE} = 10 \text{ V}, V_{GE} = 0 \text{ V}, f_o = 1 \text{ MHz}, t_{vj} = 25^\circ\text{C}$	typ.	1,8	nF
	$V_{CE} = 1200 \text{ V}, V_{GE} = 0 \text{ V}, t_{vj} = 25^\circ\text{C}$	typ.	0,2	mA
i_{CES}	$V_{CE} = 1200 \text{ V}, V_{GE} = 0 \text{ V}, t_{vj} = 125^\circ\text{C}$	typ.	1	mA
	$V_{GE} = 20 \text{ V}, t_{vj} = 25^\circ\text{C}$	typ.	50	nA
i_{GES}	$V_{GE} = 20 \text{ V}, t_{vj} = 25^\circ\text{C}$	max.	500	nA
	$V_{EG} = 20 \text{ V}, t_{vj} = 25^\circ\text{C}$	typ.	50	nA
i_{EGS}	$V_{EG} = 20 \text{ V}, t_{vj} = 25^\circ\text{C}$	max.	500	nA
	$i_{CM} = 15 \text{ A}, V_{CE} = 600 \text{ V}, V_{LF} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 25^\circ\text{C}$	typ.	0,4	μs
t_{on}	$i_{CM} = 15 \text{ A}, V_{CE} = 600 \text{ V}, V_{LF} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 125^\circ\text{C}$	typ.	0,5	μs
	$i_{CM} = 15 \text{ A}, V_{CE} = 600 \text{ V}, V_{LF} = 15 \text{ V}, V_{LR} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 25^\circ\text{C}$	typ.	0,5	μs
t_s	$i_{CM} = 15 \text{ A}, V_{CE} = 600 \text{ V}, V_{LF} = 15 \text{ V}, V_{LR} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 125^\circ\text{C}$	typ.	0,6	μs
	$i_{CM} = 15 \text{ A}, V_{CE} = 300 \text{ V}, V_{LF} = 15 \text{ V}, V_{LR} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 25^\circ\text{C}$	typ.	0,2	μs
t_f	$i_{CM} = 15 \text{ A}, V_{CE} = 600 \text{ V}, V_{LF} = 15 \text{ V}, V_{LR} = 15 \text{ V}, R_G = 100 \Omega, t_{vj} = 125^\circ\text{C}$	typ.	0,25	μs



F 8 A 1000



F . A