

**Elektrische Eigenschaften**

**Electrical properties**

**Themische Eigenschaften**

**Thermal properties**

Höchstzulässige Werte

Maximum rated values

R<sub>thJC</sub> DC 1,25 °C/W

V <sub>CES</sub>		1000	V
V <sub>ECS</sub>		5	V
I <sub>C</sub>		8	A
I <sub>CRM</sub>	t <sub>p</sub> = 1 ms	16	A
P <sub>tot</sub>	t <sub>C</sub> = 25°C	100	W
V <sub>GE</sub>		20	V
V <sub>EG</sub>		20	V

t <sub>vjmax</sub>	150	°C
t <sub>vjop</sub>	-40 / +150	°C
t <sub>stg</sub>	-40 / +125	°C

**Mechanische Eigenschaften**

**Mechanical properties**

G 4,6 g

Charakteristische Werte

Characteristic values

V <sub>CE sat</sub>	i <sub>CM</sub> = 8 A, V <sub>GE</sub> = 15 V, t <sub>vj</sub> = 25°C	typ. 3	V
	i <sub>CM</sub> = 8 A, V <sub>GE</sub> = 15 V, t <sub>vj</sub> = 25°C	max. 5	V
V <sub>GE (th)</sub>	V <sub>CE</sub> = 5 V, i <sub>C</sub> = 8 mA, t <sub>vj</sub> = 25°C	min. 3	V
	V <sub>CE</sub> = 5 V, i <sub>C</sub> = 8 mA, t <sub>vj</sub> = 25°C	max. 6	V
C <sub>GE</sub>	V <sub>CE</sub> = 10 V, V <sub>GE</sub> = 0 V, f <sub>o</sub> = 1 MHz, t <sub>vj</sub> = 25°C	typ. 0,8	nF
	V <sub>CE</sub> = 1000 V, V <sub>GE</sub> = 0 V, t <sub>vj</sub> = 25°C	typ. 0,1	mA
i <sub>CES</sub>	V <sub>CE</sub> = 1000 V, V <sub>GE</sub> = 0 V, t <sub>vj</sub> = 125°C	typ. 0,5	mA
	V <sub>GE</sub> = 20 V, t <sub>vj</sub> = 25°C	typ. 50	nA
i <sub>GES</sub>	V <sub>GE</sub> = 20 V, t <sub>vj</sub> = 25°C	max. 500	nA
	V <sub>EG</sub> = 20 V, t <sub>vj</sub> = 25°C	typ. 50	nA
i <sub>EGS</sub>	V <sub>EG</sub> = 20 V, t <sub>vj</sub> = 25°C	max. 500	nA
	t <sub>on</sub>	i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 25°C	typ. 0,35
i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 125°C		typ. 0,4	μs
t <sub>s</sub>	i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, V <sub>LR</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 25°C	typ. 0,4	μs
	i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, V <sub>LR</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 125°C	typ. 0,6	μs
t <sub>f</sub>	i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, V <sub>LR</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 25°C	typ. 0,3	μs
	i <sub>CM</sub> = 8 A, V <sub>CE</sub> = 600 V, V <sub>LF</sub> = 15 V, V <sub>LR</sub> = 15 V, R <sub>G</sub> = 150 Ω, t <sub>vj</sub> = 125°C	typ. 0,4	μs

