FZ 800 R 12 KF 1

Transist	or		Transistor			
Elektrisc	Elektrische Eigenschaften		Electrical properties			
<u>Höchstzı</u> V _{CES}	<u>Höchstzulässige Werte</u> V _{CES}		<u>Maximum rated values</u> 1200 V			v
l _C					800	А
I _{CRM}	$t_p = 1 \text{ ms}$				1600	А
P _{tot}	$t_{\rm C}$ = 25°C			(6250	W
V_{GE}					20	v
V_{EG}					20	v
Charakte	eristische Werte		Characterist	ic valu	ues	
V _{CE sat}	$i_{CM} = 800 \text{ A},$	$v_{GE} = 15 V$,		typ.	3,0	V
	$i_{CM} = 800 \text{ A},$	$v_{GE} = 15 V$,	t _{vj} = 125°C t _{vj} = 25°C	max. min.	3,8 4,5	V V
V _{GE (th)}	v _{CE} = 5 V, v _{CE} = 5 V,	$i_{\rm C} = 65 {\rm mA},$ $i_{\rm C} = 65 {\rm mA},$	$t_{vj} = 25^{\circ}C$ $t_{v_1} = 25^{\circ}C$	max.	4,5 6,5	v
Cies	$v_{CE} = 25 V,$ $v_{CE} = 25 V,$ $f_{o} = 1 MHz,$	$v_{GE} = 0.0 \text{ mA},$ $v_{GE} = 0.0 \text{ V},$ $t_{vi} = 25^{\circ}\text{C},$	vj - 20 0	typ.	130	nF
ICES	v _{CE} = 1200 V		t _{v1} = 25°C	typ.	5	mA
020	v _{CE} = 1200 V	$v_{\rm GE} = 0 V_{\rm V}$	t _{vi} = 125°C		20	mA
IGES	v _{GE} = 20 V,	t _{vj} = 25°C,		typ.	40	nA
	v _{GE} = 20 V,	t _{vj} = 25°C,		max.	400	nA
i _{egs}	v _{EG} = 20 V,	t _{vj} = 25°C,		typ.	40	nA
	$v_{EG} = 20 V,$	t _{vj} = 25°C,		max.	400	nA
t _{on}	$i_{CM} = 800 \text{ A},$ $v_{LF} = 15 \text{ V},$	$v_{CE} = 600 V,$ $R_G = 2,4 \Omega,$	$t_{v_J} = 25^{\circ}C$	typ.	0,7	μs
t _s	$i_{CM} = 800 \text{ A},$ $v_{LF} = 15 \text{ V},$ $i_{CM} = 800 \text{ A},$	$v_{CE} = 600 \text{ V},$ $R_G = 2,4 \Omega,$ $v_{CE} = 600 \text{ V},$	$t_{v_J} = 125^{\circ}C$	typ.	0,8	μs
-	$v_{LF} = 15 V,$ $R_G = 2,4 \Omega,$ $i_{CM} = 800 A,$	$v_{LR} = 15 V,$ $t_{vJ} = 25^{\circ}C$ $v_{CE} = 600 V,$		typ.	0,9	μs
t _f	$v_{LF} = 15 V,$ $R_G = 2,4 \Omega,$ $i_{CM} = 800 A,$	$v_{LR} = 15 V,$ $t_{vj} = 125^{\circ}C$ $v_{CE} = 600 V,$		typ.	1,0	μs
	$v_{LF} = 15 V,$ $R_G = 2,4 \Omega,$ $i_{CM} = 800 A,$	$v_{LR} = 15 V,$ $t_{v_{J}} = 25^{\circ}C$ $v_{CE} = 600 V,$		typ.	0,25	μs
	$v_{LF} = 15 V,$ $R_G = 2,4 \Omega,$	v _{LR} = 15 V, t _{vj} = 125°C		typ.	0,30	μs

Bedingungen für den	Conditions for protection
Kurzschlußschutz	against short circuits
	$V_{CC} = 750 V,$ $V_{CEM} = 900 V,$ $i_{CMK 1} \approx 8000 A,$ $i_{CMK 2} \approx 6000 A,$

Unabhängig davon gilt bei abweichenden Bedingungen with regard to other conditions v_{CEM} = V_{CES} - 15nH x | di_C/dt |

Thermisc R _{thJC}	he Eigenschaften DC, pro Baustein / per r	Thermal pro nodule	operties 0,02	°C/W
R _{thCK}	pro Baustein / per modu	le	0,01	°C/W
t _{vj max} t _{vj op} t _{stg}			150 - 40 / + 150 - 40 / + 125	_
Inversdio	de	Inverse dio	de	
Elektrisch	e Eigenschaften	Electrical p	roperties	
<u>Höchstzulá</u> I _{F(max)} I _{FRM}	<u>assige Werte</u> t _p =1 ms	<u>Maximum ra</u>	<u>ted values</u> 800 1600	
<u>Charakteri</u> v _F I _{RM} Q _r		= 125°C 0 Α/μs 0 Α/μs 0 Α/μs	<u>ic values</u> typ. 2,5 max. 2,1 typ. 80 typ.190 typ. 12 typ. 52	V V A A μAs μAs

Thermische Eigenschaften Thermal properties				
R_{thJC}	DC, pro Baustein / per	module	0,05	°C/W
R _{thCK}	pro Baustein / per moo	lule	0,01	°C/W
t _{vj max} t _{vj op} t _{stg}			150 - 40 / + 125 - 40 / + 125	-

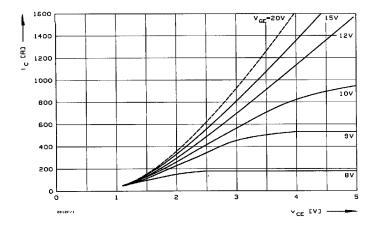
Innere Iso	ation	Internal insulatio	n	
Isoliermate	rial: Al ₂ O ₃	Insulating materia	I: Al ₂ C) ₃
VISOL	RMS (f=50 Hz, t=1 min)		3,4	kV

Mechanische Eigenschaften

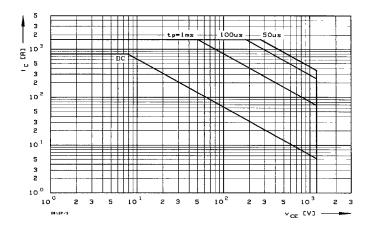
Mechanical properties

G		1500 g
M 1		3 Nm
M 2	terminals M 4 / M 8	2 Nm / 8 10 Nm
	Maßbild Seite 185, Nr. 13	outline page 185, no. 13

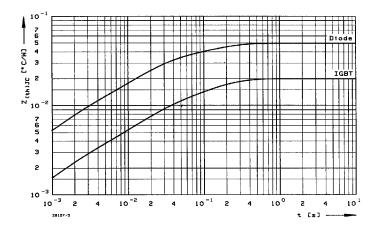
98 3403297 0002018 544 🛲

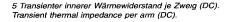


1 Kollektor-Emitter-Spannung im Sättigungsbereich (typisch). Collector-emitter-voltage in saturation region (typical). $t_{v_j} = 25^{\circ}C$

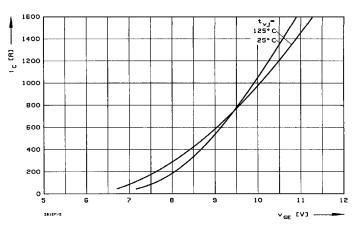


3 Vorwärts-Arbeitsbereich FBSOA (Einzelimpuls, nicht periodisch). Forward blased safe operating area (single pulse, non repetitive). $t_C = 25^{\circ}C$

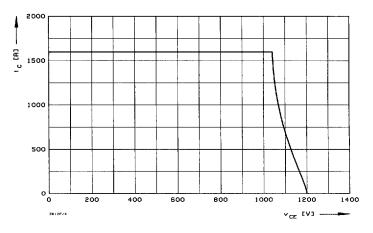




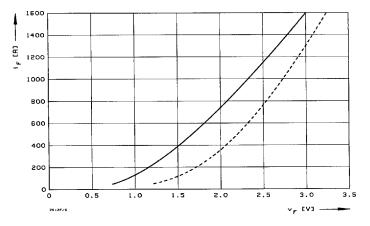
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2 Übertragungscharakteristik (typisch). Transfer characteristic (typical). v_{CE} = 20 V



4 Rúckwärts-Arbeitsbereich RBSOA Reverse biased safe operating area. $t_{v_l} = 125^{\circ}C, v_{LF} = v_{LR} = 15 V, R_G = 2,4 \Omega$



6 Durchlaßkennlinie der Inversdiode (typisch). Forward characteristic of the inverse diode (typical). - - - $t_{vj} = 25^{\circ}C$, —— $t_{vj} = 125^{\circ}C$, $v_{GE} = 0$ V

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