

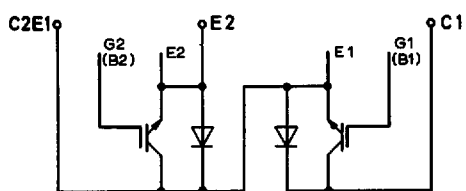
F 6 – 25 R 12 KF

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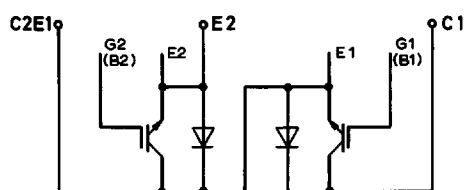
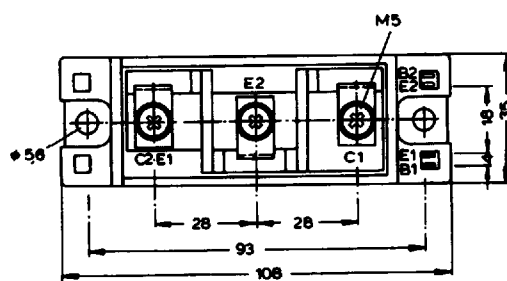
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Transistor			Thermische Eigenschaften		Thermal properties	
Elektrische Eigenschaften			Electrical properties		Electrical properties	
Höchstzulässige Werte			Maximum rated values		Maximum rated values	
V_{CES}			1200	V		
I_C			25	A	t_{vjmax}	150 °C
I_{CRM}	$t_p = 1\text{ ms}$		50	A	t_{vjop}	-40 / + 150 °C
P_{tot}	$t_C = 25^\circ\text{C}$		200	W	t_{stg}	-40 / + 125 °C
V_{GE}			20	V	Inversdiode	
V_{EG}			20	V	Inverse diode	
Charakteristische Werte			Characteristic values		Electrical properties	
$V_{CE\ sat}$	$i_{CM} = 25\text{ A},$ $i_{CM} = 25\text{ A},$	$v_{GE} = 15\text{ V},$ $v_{GE} = 15\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	typ. 3 V max. 4 V	$I_F\ (max)$	25 A
$v_{GE}\ (th)$	$v_{CE} = 5\text{ V},$ $v_{CE} = 5\text{ V},$	$i_C = 25\text{ mA},$ $i_C = 25\text{ mA},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$	min. 3 V max. 6 V	I_{FRM}	50 A
C_{GE}	$v_{CE} = 10\text{ V},$ $f_o = 1\text{ MHz},$	$v_{GE} = 0\text{ V},$ $t_{vj} = 25^\circ\text{C}$		typ. 2,8 nF	Charakteristische Werte	
i_{CES}	$v_{CE} = 1200\text{ V},$ $v_{CE} = 1200\text{ V},$	$v_{GE} = 0\text{ V},$ $v_{GE} = 0\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 125^\circ\text{C}$	typ. 0,2 mA typ. 1 mA	v_F	$i_F = 25\text{ A}, v_{GE} = 0\text{ V}, t_{vj} = 25^\circ\text{C}$ typ. 1,6 V $i_F = 25\text{ A}, v_{GE} = 0\text{ V}, t_{vj} = 25^\circ\text{C}$ max. 2,5 V
i_{GES}	$v_{GE} = 20\text{ V},$ $v_{GE} = 20\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$		typ. 50 nA max. 500 nA	I_{RM}	$i_{FM} = 25\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ typ. 7 A $v_{EG} = 10\text{ V}, t_{vj} = 25^\circ\text{C}$
i_{EGS}	$v_{EG} = 20\text{ V},$ $v_{EG} = 20\text{ V},$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$		typ. 50 nA max. 500 nA	Q_r	$i_{FM} = 25\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ typ. 14 A $v_{EG} = 10\text{ V}, t_{vj} = 125^\circ\text{C}$
t_{on}	$i_{CM} = 25\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 600\text{ V},$ $R_G = 51\ \Omega,$	$t_{vj} = 25^\circ\text{C}$	typ. 0,4 μs		$i_{FM} = 25\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ typ. 0,9 μAs $v_{EG} = 10\text{ V}, t_{vj} = 25^\circ\text{C}$
t_s	$i_{CM} = 25\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 600\text{ V},$ $v_{LR} = 15\text{ V},$	$t_{vj} = 125^\circ\text{C}$	typ. 0,5 μs		$i_{FM} = 25\text{ A}, -di_F/dt = 100\text{ A}/\mu\text{s}$ typ. 3,2 μAs $v_{EG} = 10\text{ V}, t_{vj} = 125^\circ\text{C}$
t_f	$i_{CM} = 25\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 600\text{ V},$ $v_{LR} = 15\text{ V},$		typ. 0,5 μs	Thermische Eigenschaften	
	$R_G = 51\ \Omega,$ $R_G = 51\ \Omega,$	$t_{vj} = 25^\circ\text{C}$ $t_{vj} = 25^\circ\text{C}$		typ. 0,6 μs	Thermal properties	
	$i_{CM} = 25\text{ A},$ $v_{LF} = 15\text{ V},$	$v_{CE} = 600\text{ V},$ $v_{LR} = 15\text{ V},$		typ. 0,2 μs	R_{thJC}	DC, pro Baustein / per module 0,167 °C/W DC, pro Zweig / per arm 1 °C/W
	$R_G = 51\ \Omega,$ $R_G = 51\ \Omega,$	$t_{vj} = 125^\circ\text{C}$ $t_{vj} = 125^\circ\text{C}$		typ. 0,25 μs	t_{vjmax}	125 °C
					t_{vjop}	-40 / + 125 °C
					t_{stg}	-40 / + 125 °C
Bedingungen für den Kurzschlußschutz			Conditions for protection against short circuits		Internal insulation	
$t_{fg} = 10\ \mu\text{s},$ $v_{LF} = v_{LR} = 15\text{ V},$ $R_G = 51\ \Omega,$ $t_{vj} = 125^\circ\text{C},$			$V_{CC} = 750\text{ V},$ $V_{CEM} = 1000\text{ V},$ $i_{CMK1} \approx 250\text{ A},$ $i_{CMK2} \approx 200\text{ A}$		Insulating material: AlN 2,5 kV	
					Mechanische Eigenschaften	
					Mechanical properties	
					G	690 g
					M1	3 Nm
					M2	3 Nm
					Maßbild	outline
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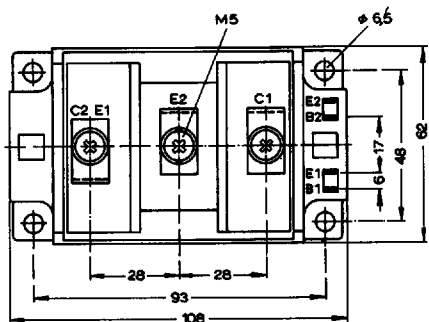
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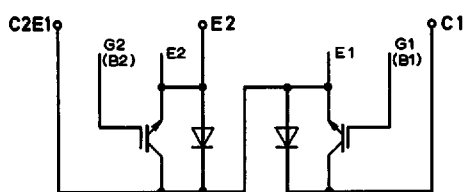
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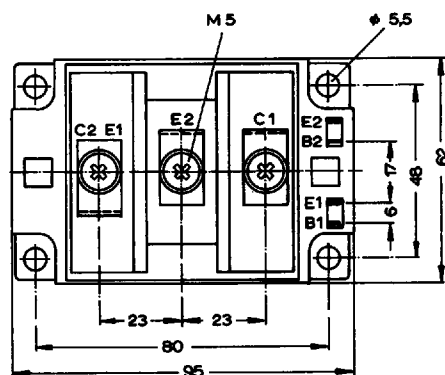
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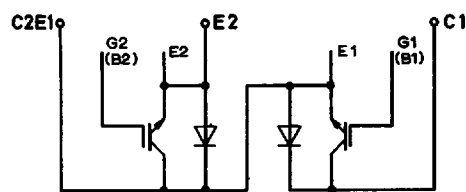
FF 100 R 1000 K



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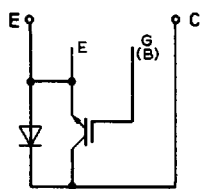
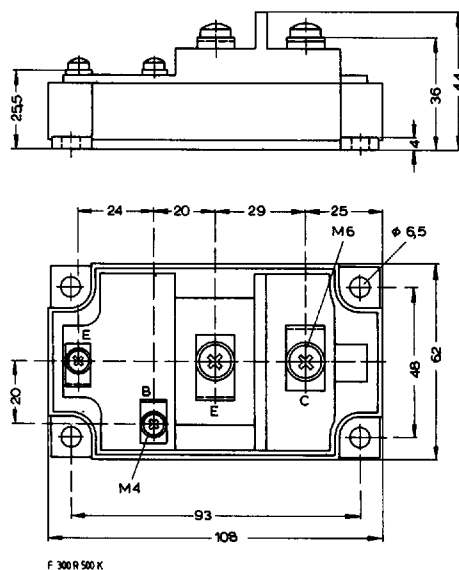


FF 150 R 500 K

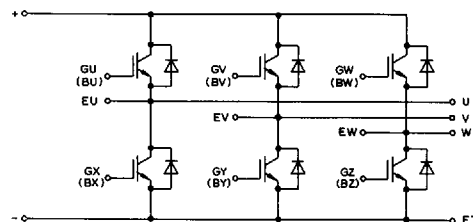
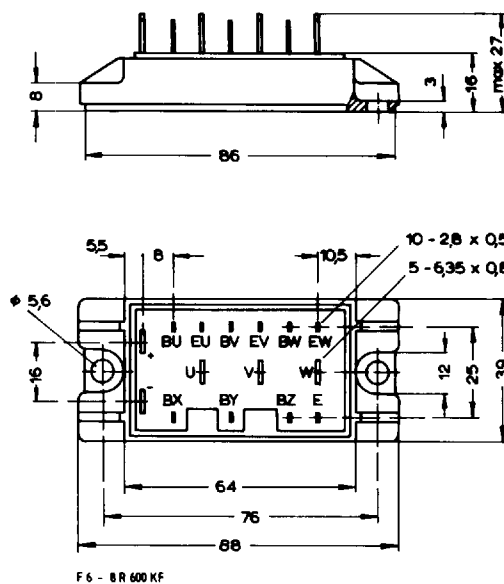


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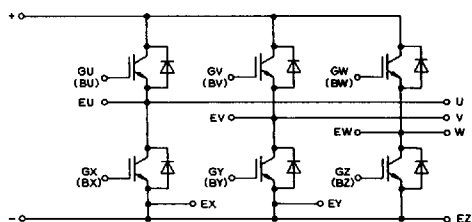
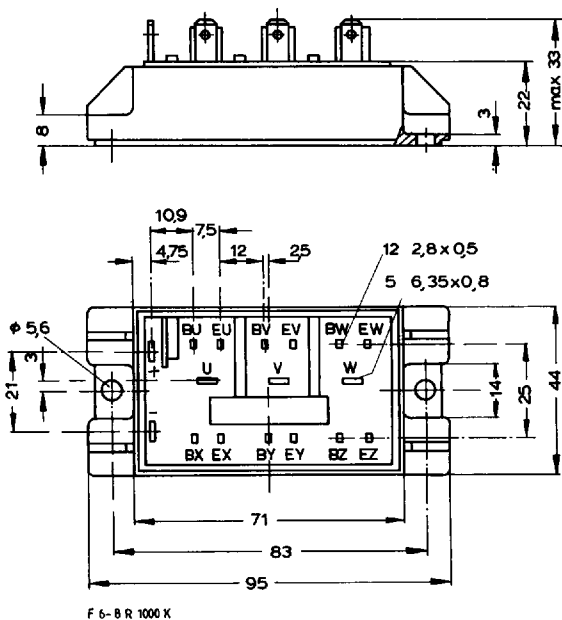
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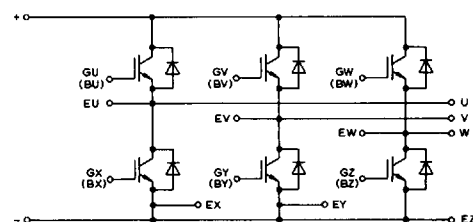
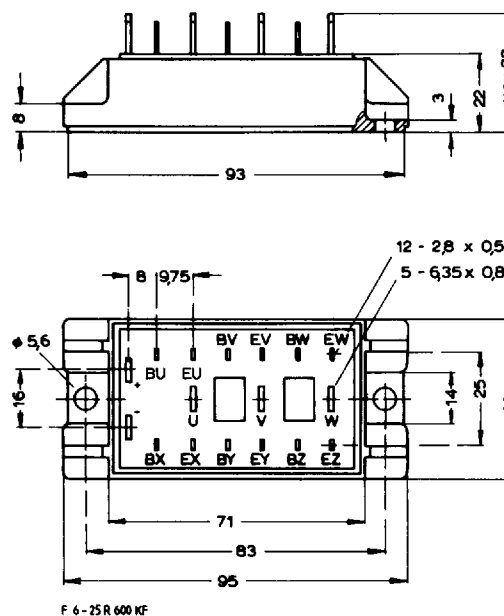
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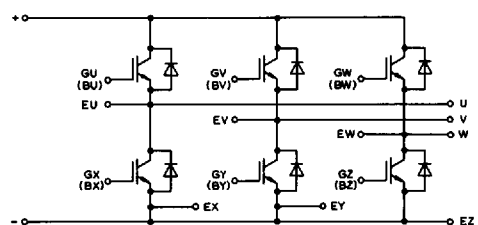
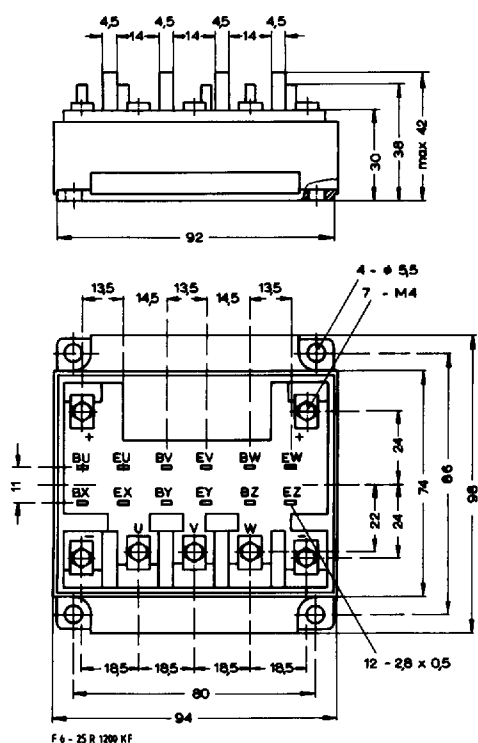
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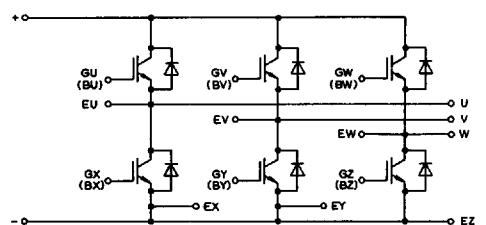
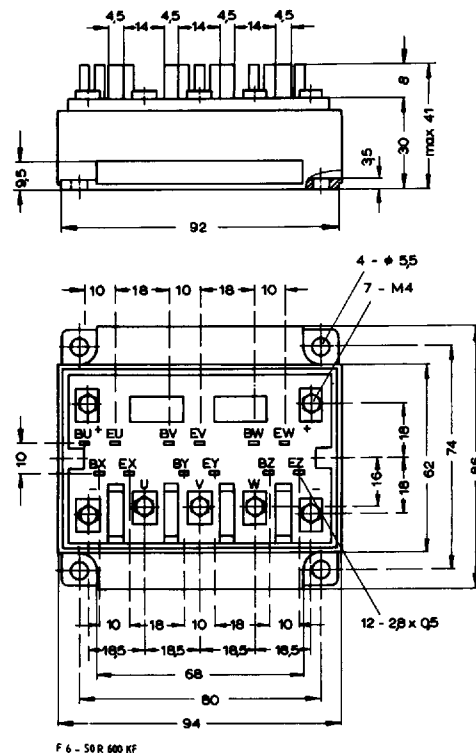
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