

Electrical Parameters

Symbol	Conditions	Ratings			Units
		min	typ	max	
I_R	$V = V_{RRM}$	$T_{vj} = 25\text{ °C}$		500	μA
		$T_{vj} = 150\text{ °C}$	5		mA
V_F	$I_f = 250\text{ A}$	$T_{vj} = 25\text{ °C}$	1,90	2,20	V
		$T_{vj} = 150\text{ °C}$	1,90		V
V_{FO}	For power loss calculations only			1,3	V
r_F		$T_{vj} = 175\text{ °C}$		3,4	$\text{m}\Omega$
T_{VJ}				-55	$^{\circ}\text{C}$
$I_{F(AV)}$ *	DC	$T_c = 80\text{ °C}$	229		A
I_{FSM} *	$V = 0\text{V}$	$T_{vj} = 45\text{ °C}$		1800	A
R_{thJC} *	DC current			0,2	K/W
Q_{rr}					μC
I_{RM}	$V = 900\text{ V}$	$T_{vj} = 25\text{ °C}$			A
		$dI_f/dt = 3600\text{ A}/\mu\text{s}$			
t_{rr}	$I_f = 250\text{ A}$				ns
E_{rec}					mJ
Q_{rr}	$V = 900\text{ V}$	$T_{vj} = 150\text{ °C}$	74		μC
		$dI_f/dt = 3600\text{ A}/\mu\text{s}$	380		A
t_{rr}	$I_f = 250\text{ A}$		200		ns
E_{rec}			30		mJ

 * Data according to assembled 380 μm DCB

Data according to IEC 60747

Terms of Conditions & Usage

The data contained in this product datasheet is exclusively intended for technically trained staff. The user will have to evaluate the suitability of the product for the intended application and the completeness of the product data with respect to his application. The specifications of our components may not be considered as an assurance of component characteristics. Should you require product information in excess of the data given in this product datasheet or which concerns the specific application of our product, please contact the sales office, which is responsible for you. Due to technical requirements our product may contain dangerous substances. For any information on the types in question please contact the sales office/partner, which is responsible for you.

Should you intend to use the product in aviation applications, in life or health endangering or life support applications, please notify. For any such applications we urgently recommend

- to perform joint risks and quality assessments;
- the conclusion of quality agreements;
- to establish joint measures to ensure application specific product capabilities and notify that IXYS may deliver dependant on the realisation of any such measures.