



Maximum Ratings

Symbol	Conditions	Values	Units
V_R		1200	V
V_{RRM}		1200	V
$I_{F(AV)}$	$T_C=110^{\circ}\text{C}$, Per Diode	100	A
$I_{F(RMS)}$	$T_C=110^{\circ}\text{C}$, Per Diode	140	A
I_{FSM}	1/2 Cycle , 50Hz, Sine	1100	A
	1/2 Cycle , 60Hz, Sine	1200	A

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I_{RM}	$V_R=1200V$	--	--	1	mA
	$V_R=1200V, T_J=125^{\circ}C$	--	--	5	mA
V_F	$I_F=100A$	--	1.58		V
	$I_F=100A, T_J=125^{\circ}C$	--	1.35		V
trr	$I_F=1A, V_R=30V, di_F/dt=-200A/\mu s$	--	55	--	ns
trr	$V_R=600V, I_F=100A, di_F/dt=-200A/\mu s, T_J=25^{\circ}C$	--	135	--	ns
I_{RRM}		--	10	--	A
trr	$V_R=600V, I_F=100A, di_F/dt=-200A/\mu s, T_J=125^{\circ}C$	--	380	--	ns
I_{RRM}		--	21	--	A

Performance Curves

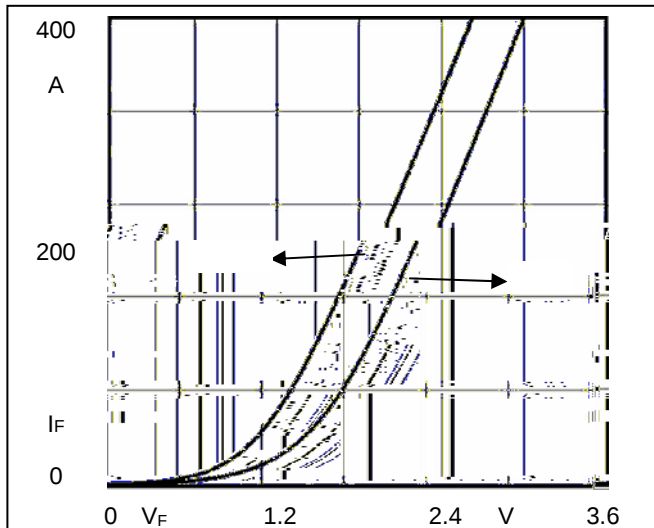


Fig1. Forward Voltage Drop vs Forward Current

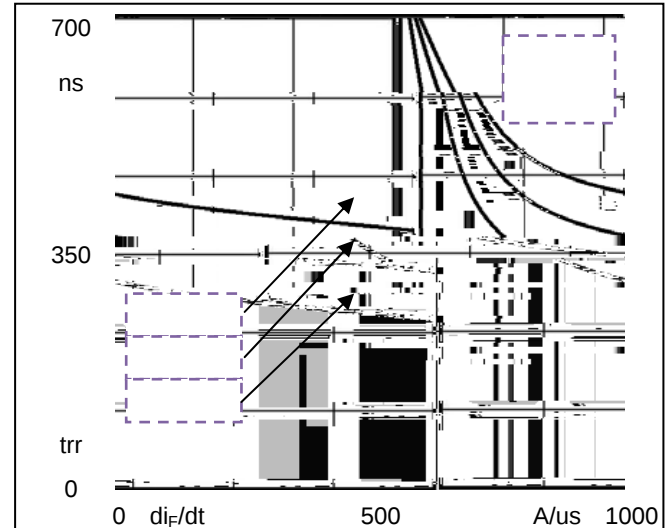


Fig2. Reverse Recovery Time vs di_F/dt

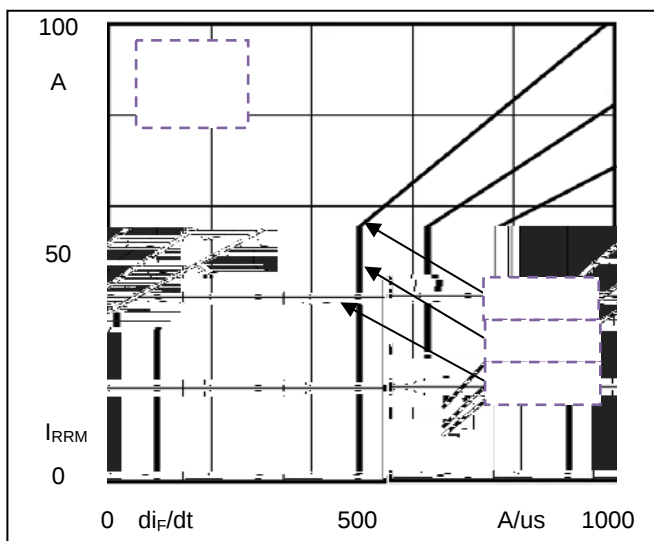


Fig3. Reverse Recovery Current vs di_F/dt

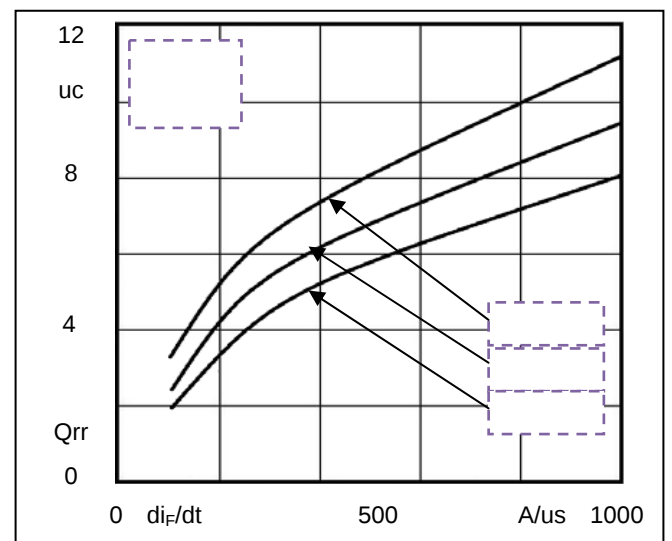
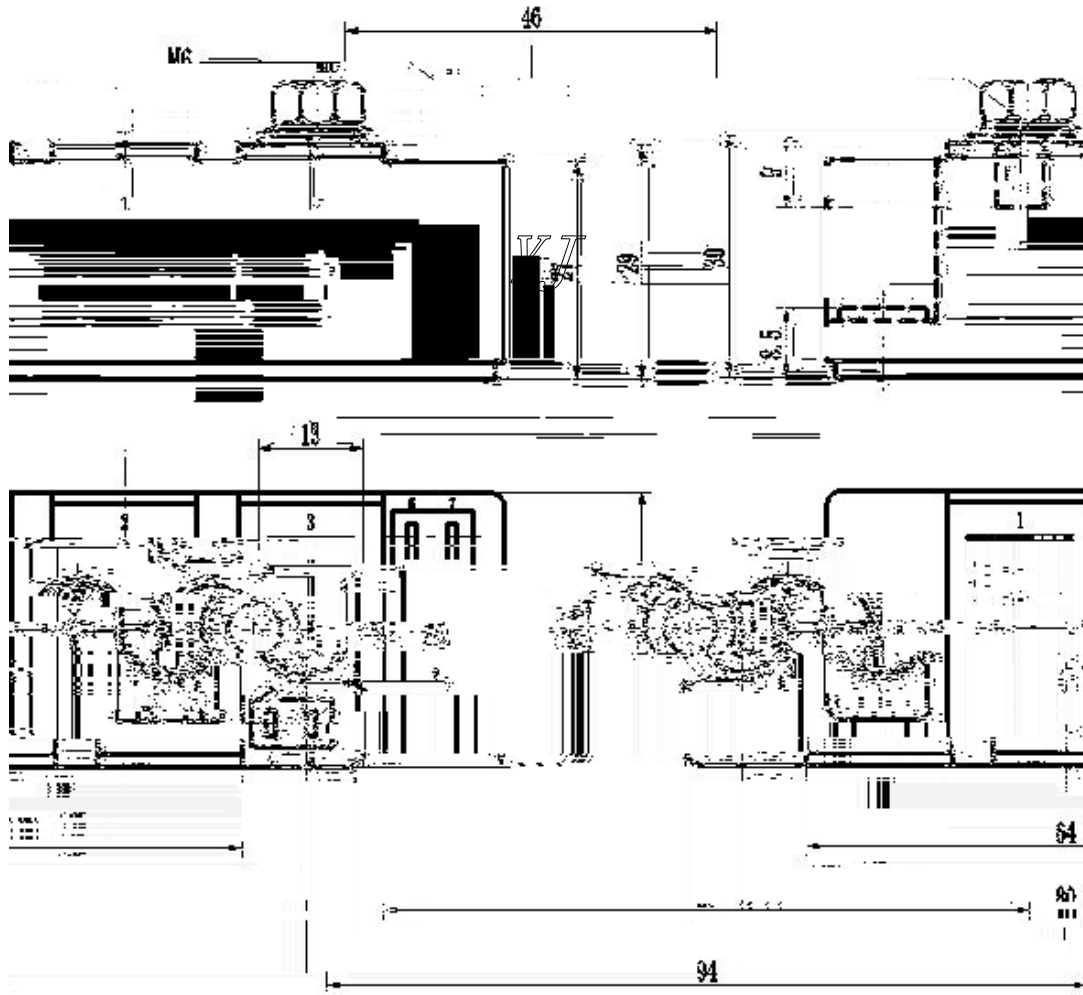


Fig4. Reverse Recovery Charge vs di_F/dt

Package Outline Information

CASE: F2



Dimensions in mm