

- Power Factor Correction (PFC) Circuit
- Converter & Chopper

Features

- Soft Reverse Recovery Characteristics
- Ultrafast Reverse Recovery Time
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package

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^2t	$T_J=45^\circ\text{C}$, $t=10\text{ms}$, 50Hz, Sine	6050	A^2s
	$T_J=45^\circ\text{C}$, $t=8.3\text{ms}$, 60Hz, Sine	7200	A^2s
P_D		280	W
Visol	AC, $T_{on}=1\text{min}$	3000	V
T_J		-40 to +150	$^\circ\text{C}$
T_{STG}		-40 to +125	$^\circ\text{C}$
Torque	RecommendedHM6H	4.5	N·m
Torque	RecommendedHM6H	4.5	N·m
Weight		150	g

Thermal CharacteristicsApplica02 ns <0107>Tj 5 ()Tj15.06-1.115.06D.6408 6/W079jPB)362hg2Pw4665



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

Performance Curves

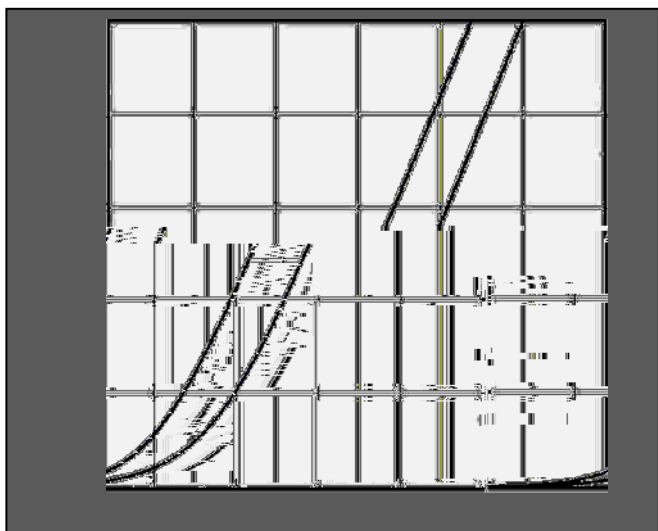


Fig1. Forward Voltage Drop vs Forward Current

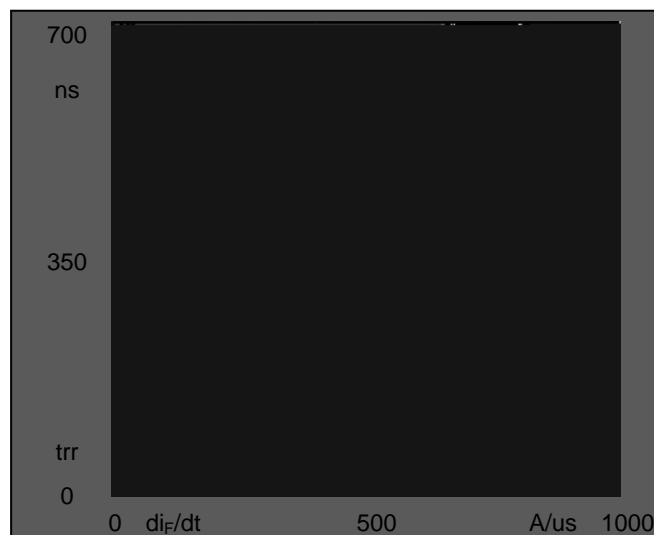


Fig2. Reverse Recovery Time vs di_F/dt

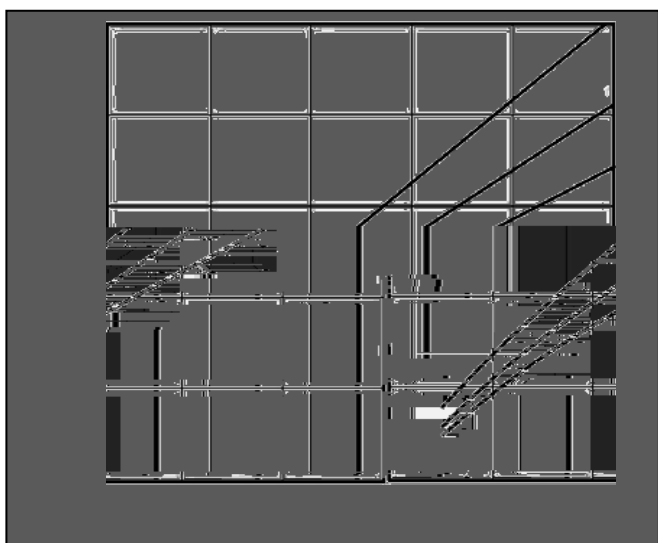


Fig3. Reverse Recovery Current vs di_F/dt

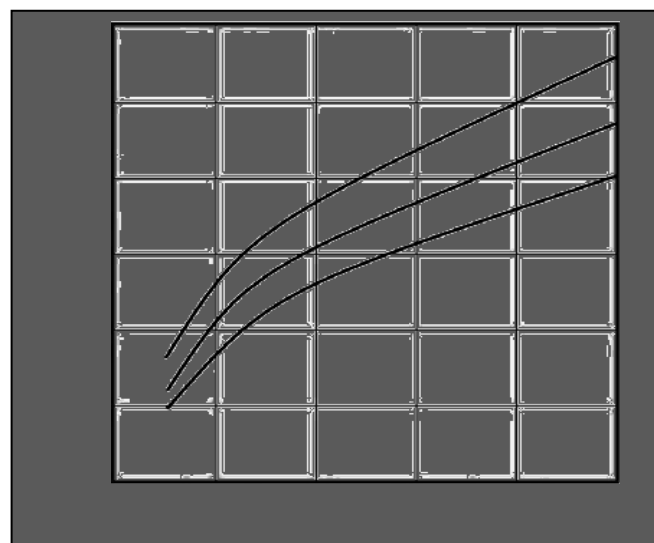
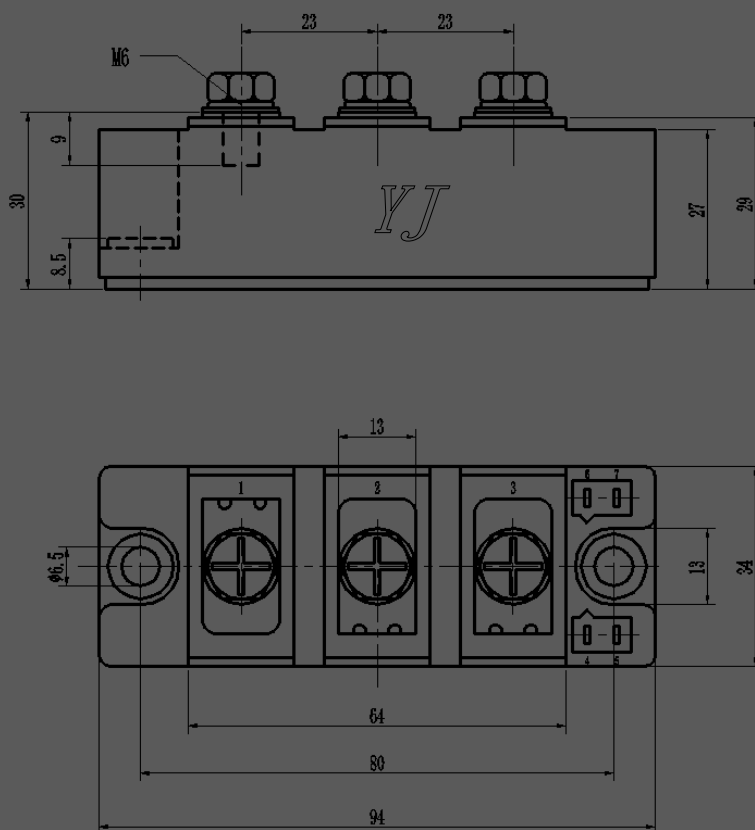


Fig4. Reverse Recovery Charge vs di_F/dt



Package Outline Information

CASE: F2



Dimensions in mm