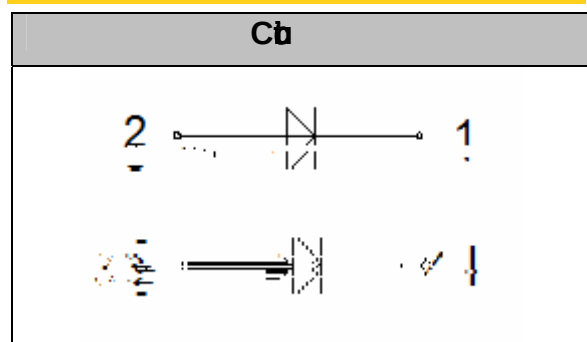




FRD

V_{DS} 0
I_{FAV} 2 h

A_p

y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V

F_{th}

y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V
y 0.1V

Table 1

Symbol	Parameter	Value	Unit
V_R		0	V
V_{DS}		0	V
I_R	T_C	0	A
	T_C	0	A
	T_C	0	A
I_{R1}	T_C	8	A
I_{R2}	T_C	6	A
	T_C	6	A
I^2t	T_J	0	A ² s
	T_J	0	A ² s
P_D		0	W
T_J		0	°C
T_S		0	°C
V		1	A
Q		0	n
Q		0	n
Q_V		2	g

Table 2

Symbol	Parameter	Value	Unit
R_{th}	θ	0	$^{\circ}C/W$

Electrical Characteristics

Symbol	Conditions	Unit			Typical Value
		Min	Max	Test Conditions	
I_{RM}	$V_R=600V$	--	--	0.1	mA
	$V_R=600V, T_J=125^{\circ}C$	--	--	1	mA
V_F	$I_F=60A$	--	1.2	1.4	V
	$I_F=60A, T_J=125^{\circ}C$	--	1.05	1.25	V
trr	$I_F=1A, V_R=30V, di_F/dt=-200A/s$	--	50	60	ns
trr I_{RRM}	$V_R=300V, I_F=60A, di_F/dt=-200A/s, T_J=25^{\circ}C$	--	75	--	ns

Typical Characteristics

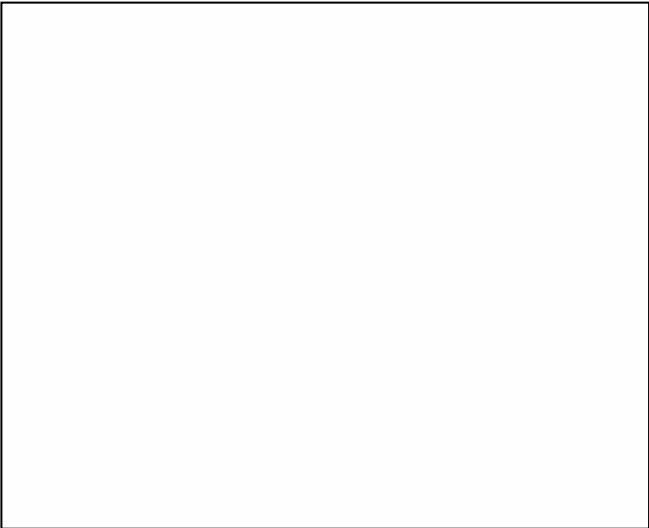


Fig. 1. Forward current

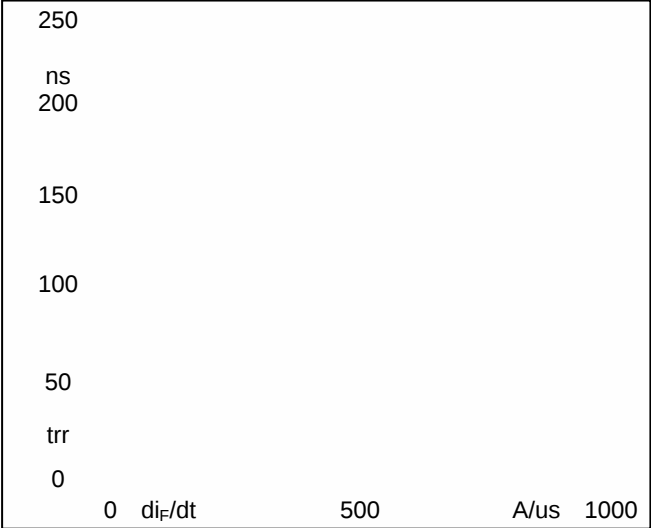


Fig. 2. Reverse current



Fig. 3. Forward recovery time



Fig. 4. Reverse recovery time



MF120DU06FJ