



Symbol	Conditions	Values	Units
$V_R$		600	V
$V_{RRM}$		600	V
$I_{F(AV)}$	$T_C=110^{\circ}\text{C}$ , Per Diode	200	A
	$T_C=120^{\circ}\text{C}$ , 20KHz, Per Module	300	A
$I_{F(RMS)}$	$T_C=110^{\circ}\text{C}$ , Per Diode	280	A
$I_{FSM}$	1/2 Cycle , 50Hz, Sine	2000	A
	1/2 Cycle , 60Hz, Sine	2200	A
$I^2t$	$T_J=45^{\circ}\text{C}$ , $t=10\text{ms}$ , 50Hz, Sine	20000	$\text{A}^2\text{s}$



### Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
$I_{RM}$	$V_R=600V$	--	--	0.5	mA
	$V_R=600V, T_J=125^{\circ}C$	--	--	3	mA
$V_F$	$I_F=200A$	--	1.15	1.6	V
	$I_F=200A, T_J=125^{\circ}C$	--	0.9	1.25	V
$t_{rr}$	$I_F=1A, V_R=30V, di_F/dt=-200A/\mu s$	--	50	--	ns
$t_{rr}$	$V_R=300V, I_F=200A, di_F/dt=-200A/\mu s, T_J=25^{\circ}C$	--	140	--	ns
$I_{RRM}$		--	15	--	A
$t_{rr}$	$V_R=300V, I_F=200A, di_F/dt=-200A/\mu s, T_J=125^{\circ}C$	--	230	--	ns
$I_{RRM}$		--	25	--	A

### Performance Curves

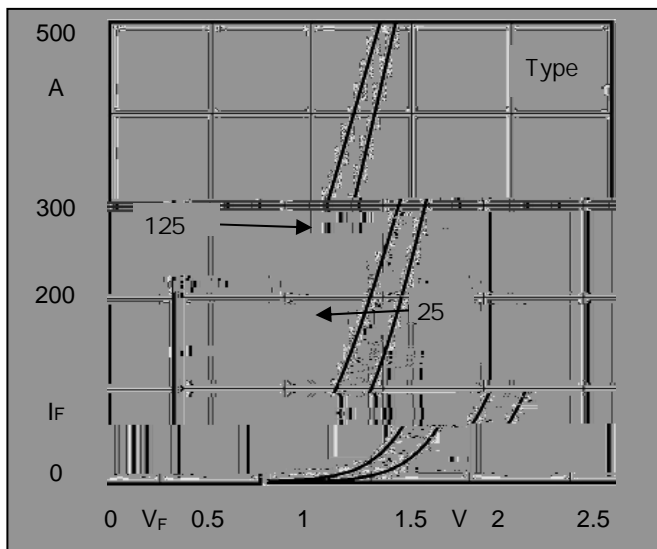


Fig1. Forward Voltage Drop vs Forward Current

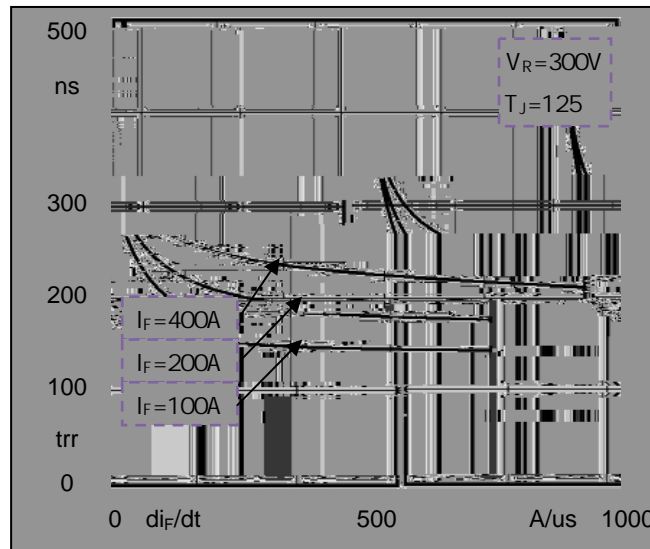


Fig2. Reverse Recovery Time vs  $di_F/dt$

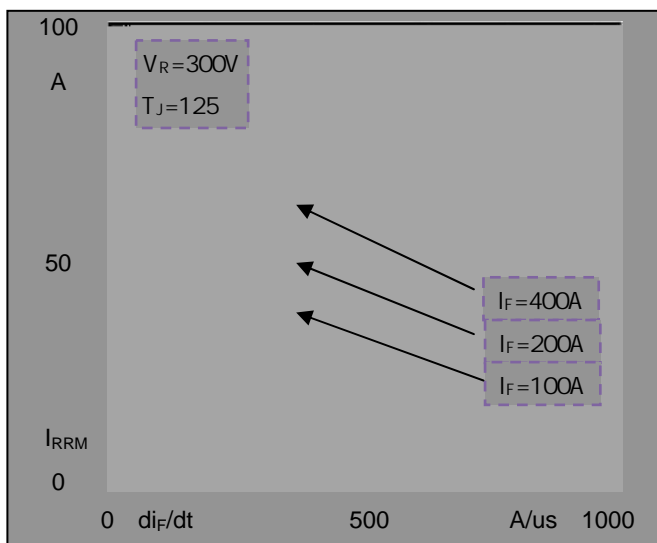


Fig3. Reverse Recovery Current vs  $di_F/dt$

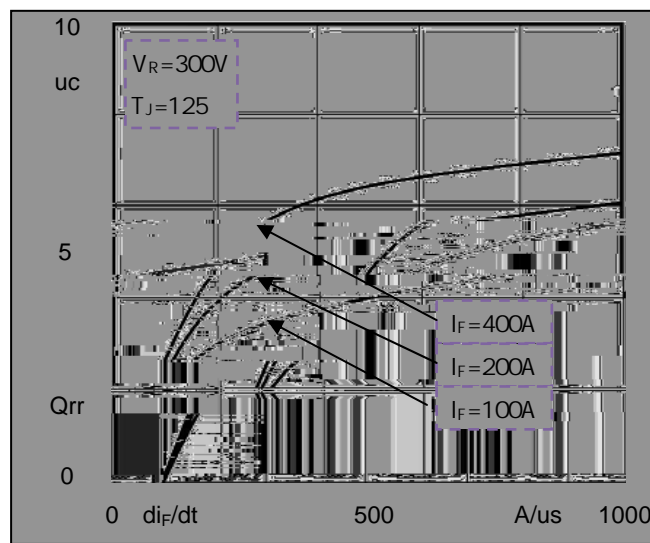


Fig4. Reverse Recovery Charge vs  $di_F/dt$



## Package Outline Information

