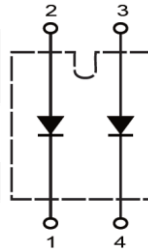


# Super Fast Recovery Rectifier Module Type 200 A

 $V_{RRM} = 1200\text{ V}$ 
 $I_{F(AV)} = 200\text{ A}$ 

## Features

- High Surge Capability
- Type 1200 V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive


**SOT-227 Package**


## Maximum ratings

Parameter	Symbol	Conditions	Value	Unit
Maximum recurrent peak reverse voltage	$V_{RRM}$		1200	V
Maximum DC blocking voltage	$V_{DC}$		1200	V
Maximum RMS Voltage	$V_{RMS}$		840	V
Operating temperature	$T_j$		-55 to 175	°C
Storage temperature	$T_{stg}$		-55 to 175	°C

## Electrical characteristics at 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	Value	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ °C}$	200	A
Peak forward surge current (per leg)	$I_{FSM}$	8.3 ms, half sine	1600	A
Maximum instantaneous forward voltage* (per leg)	$V_F$	$I_{FM} = 100\text{ A}, T_j = 25\text{ °C}$	2.35	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	$I_R$	$T_j = 25\text{ °C}$	25	μA
		$T_j = 150\text{ °C}$	3	mA
Isolation voltage	$V_{ISO}$	A.C. 1 minute	2500	V
Maximum reverse recovery time (per leg)	$t_{rr}$	$I_F = 0.5\text{ A}, I_R = 1.0\text{ A}, I_{RR} = 0.25\text{ A}$	125	ns

## Thermal characteristics

Maximum thermal resistance junction to case (per leg)	$R_{\theta jc}$		0.4	°C/W
---	-----------------	--	-----	------

\* Pulse Test: Pulse width 300 μs, Duty < 2 %

Figure .1- Typical Forward Characteristics

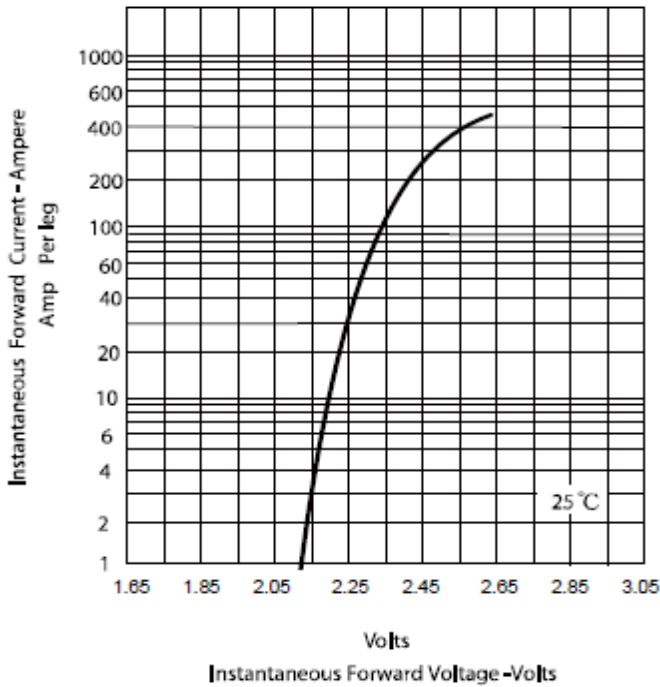


Figure.2 - Forward Derating Curve

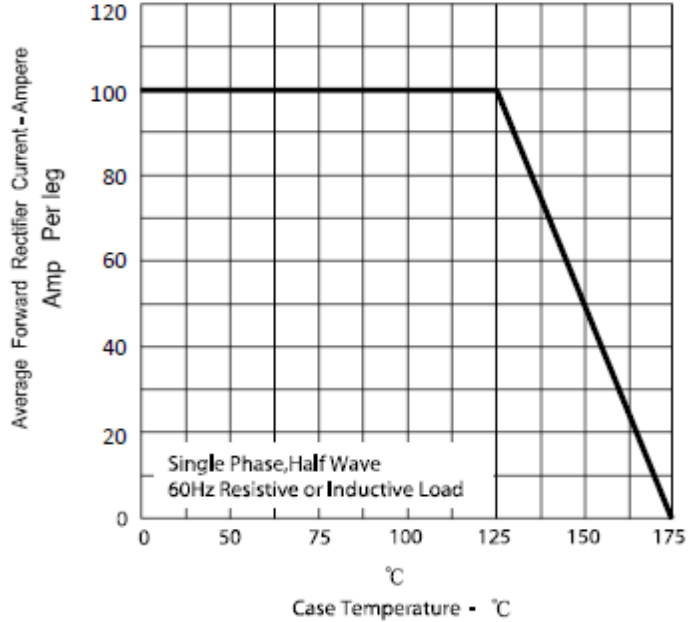


Figure.3 - Peak Forward Surge Current

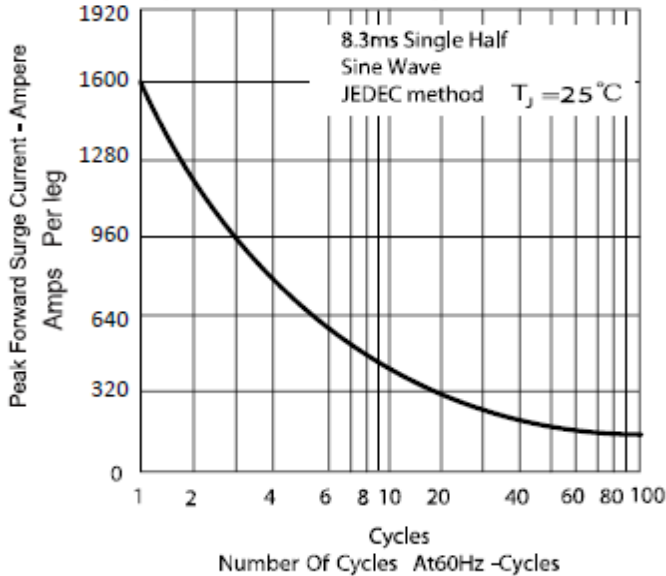
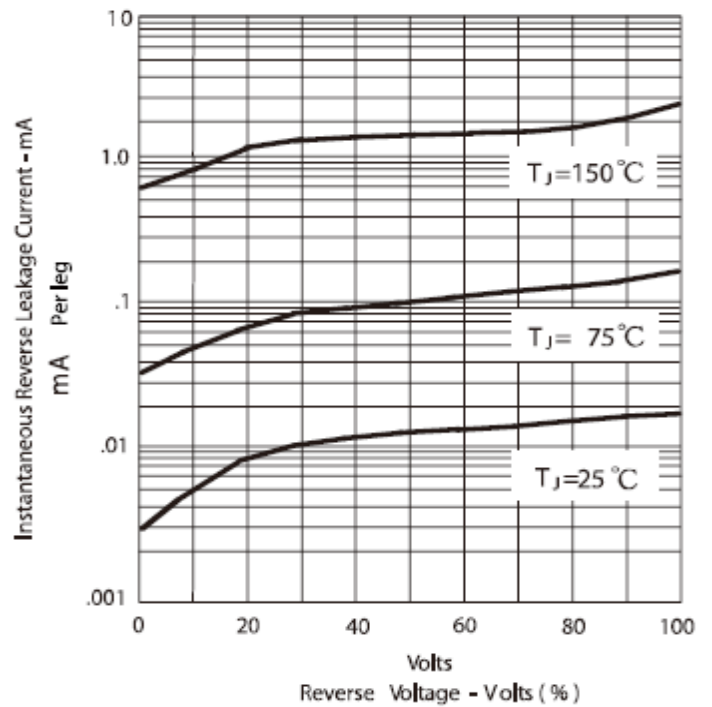


Figure .4-Typical Reverse Characteristics



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.500	.519	12.70	13.20
B	.307	.322	7.80	8.20
C	.029	.033	.75	.84
D	.077	.082	1.95	2.10
E	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
H	.996	1.007	25.30	25.60
I	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
M	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
O	1.184	1.192	30.10	30.30
P	M4*8			

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Discrete Semiconductor Modules](#) category:*

*Click to view products by [GeneSiC Semiconductor](#) manufacturer:*

Other Similar products are found below :

[M252511FV](#) [DD260N12K-A](#) [DD380N16A](#) [DD89N1600K-A](#) [APT2X21DC60J](#) [APT58M80J](#) [B522F-2-YEC](#) [MSTC90-16](#) [25.163.0653.1](#)  
[25.163.2453.0](#) [25.163.4253.0](#) [25.190.2053.0](#) [25.194.3453.0](#) [25.320.4853.1](#) [25.320.5253.1](#) [25.326.3253.1](#) [25.326.3553.1](#) [25.330.1653.1](#)  
[25.330.4753.1](#) [25.330.5253.1](#) [25.334.3253.1](#) [25.334.3353.1](#) [25.350.2053.0](#) [25.352.4753.1](#) [25.522.3253.0](#) [T483C](#) [T484C](#) [T485F](#) [T485H](#)  
[T512F-YEB](#) [T513F](#) [T514F](#) [T554](#) [T612FSE](#) [25.161.3453.0](#) [25.179.2253.0](#) [25.194.3253.0](#) [25.325.1253.1](#) [25.326.4253.1](#) [25.330.0953.1](#)  
[25.332.4353.1](#) [25.350.1653.0](#) [25.350.2453.0](#) [25.352.1453.0](#) [25.352.1653.0](#) [25.352.2453.0](#) [25.352.5453.1](#) [25.522.3353.0](#) [25.602.4053.0](#)  
[25.640.5053.0](#)