

Super Fast Recovery Diode RFN20TF6S

•Serise Standard Fast Recovery Dimensions(Unit : mm)

Structure

,

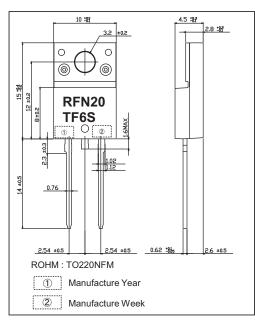
•Applications General rectification

Features

1)Low switching loss

2)High current overload capacity

•Construction Silicon epitaxial planer type

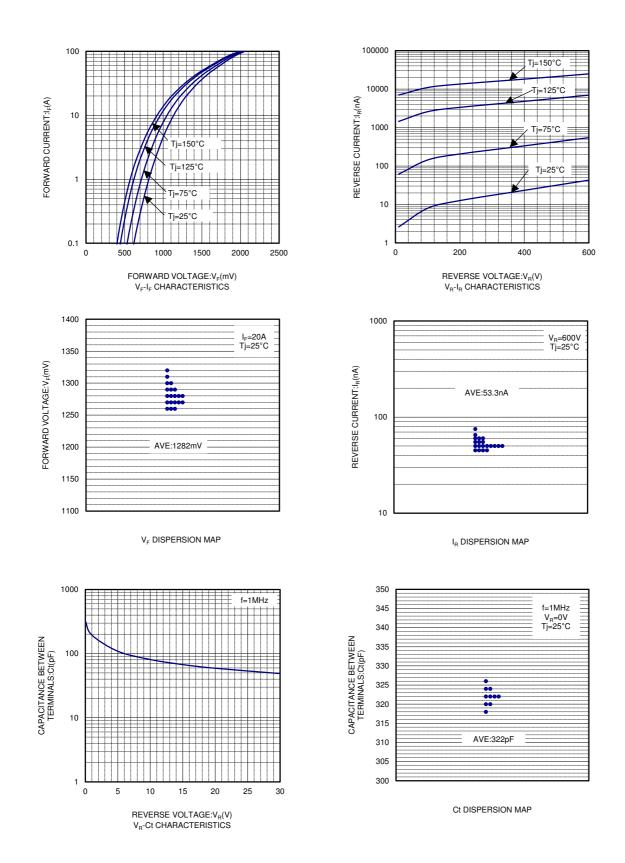


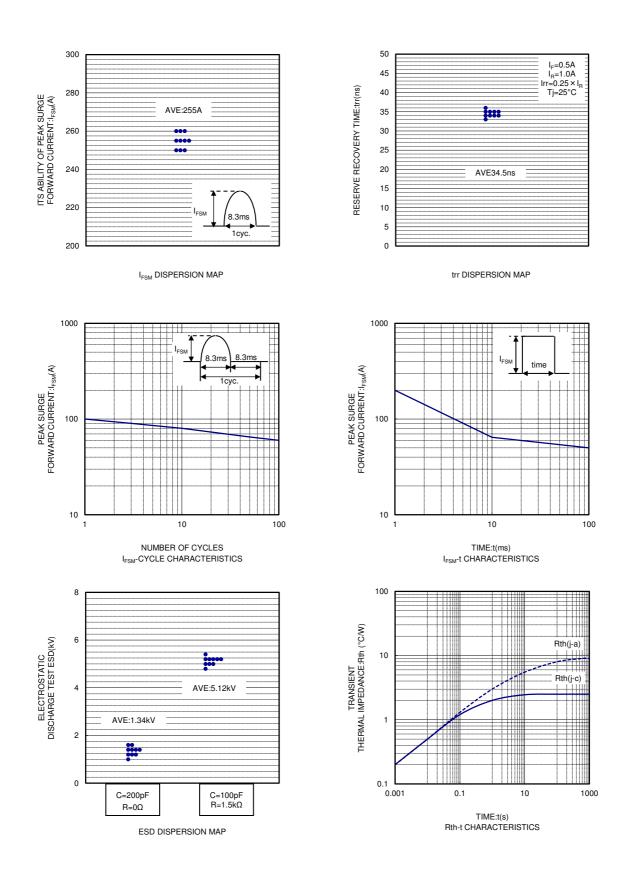
•Absolute Maximum Ratings(Tc=25°C)

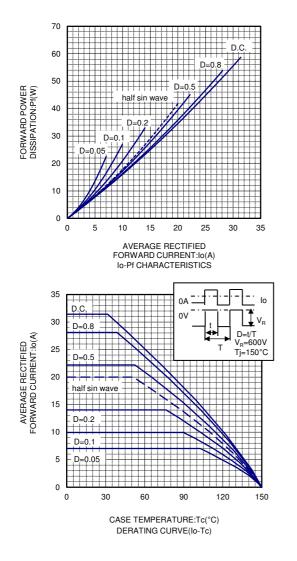
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty≦0.5		600	V
Reverse voltage	V _R	Direct voltage	Direct voltage		V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=51°C	20	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at	Tj=25°C	100	Α
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

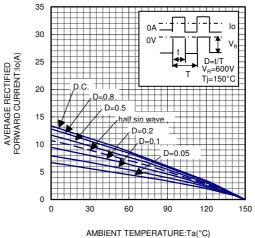
•Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20A	-	1.25	1.55	V
Reverse current	I _R	V _R =600V	_	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A, I_R=1A, Irr=0.25 \times I_R$	—	40	60	ns
Thermal resistance	Rth(j-c)	Junction to case	—	—	2.5	°C/W









DERATING CURVE(lo-Ta)

	Notes
	or reproduction of this document, in part or in whole, is permitted without the OHM Co.,Ltd.
The content s	specified herein is subject to change for improvement without notice.
"Products").	specified herein is for the purpose of introducing ROHM's products (hereinafter If you wish to use any such Product, please be sure to refer to the specifications e obtained from ROHM upon request.
illustrate the	application circuits, circuit constants and any other information contained hereir standard usage and operations of the Products. The peripheral conditions must account when designing circuits for mass production.
However, sh	vas taken in ensuring the accuracy of the information specified in this document ould you incur any damage arising from any inaccuracy or misprint of such ROHM shall bear no responsibility for such damage.
examples of implicitly, any other parties	I information specified herein is intended only to show the typical functions of and application circuits for the Products. ROHM does not grant you, explicitly of y license to use or exercise intellectual property or other rights held by ROHM and a. ROHM shall bear no responsibility whatsoever for any dispute arising from the rechnical information.
equipment o	s specified in this document are intended to be used with general-use electronic r devices (such as audio visual equipment, office-automation equipment, commu- ces, electronic appliances and amusement devices).
The Products	s specified in this document are not designed to be radiation tolerant.
	1 always makes efforts to enhance the quality and reliability of its Products, a fail or malfunction for a variety of reasons.
against the p failure of any shall bear no	The to implement in your equipment using the Products safety measures to guard cossibility of physical injury, fire or any other damage caused in the event of the Product, such as derating, redundancy, fire control and fail-safe designs. ROHM presponsibility whatsoever for your use of any Product outside of the prescribed in accordance with the instruction manual.
system which may result in instrument, t controller or of the Produ	s are not designed or manufactured to be used with any equipment, device of h requires an extremely high level of reliability the failure or malfunction of which a direct threat to human life or create a risk of human injury (such as a medica ransportation equipment, aerospace machinery, nuclear-reactor controller, fuel- other safety device). ROHM shall bear no responsibility in any way for use of any icts for the above special purposes. If a Product is intended to be used for any purpose, please contact a ROHM sales representative before purchasing.
be controlled	to export or ship overseas any Product or technology specified herein that may d under the Foreign Exchange and the Foreign Trade Law, you will be required to use or permit under the Law.



Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

http://www.rohm.com/contact/