

# Super Fast Recovery Diode

# RFUH20NS6S

#### ●Serise

Super Fast Recovery

#### Applications

General rectification

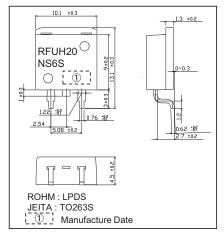
#### Features

- 1)Ultra low switching loss
- 2)High current overload capacity

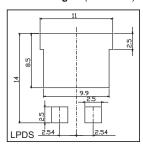
## Construction

Silicon epitaxial planer type

#### ●Dimensions(Unit:mm)

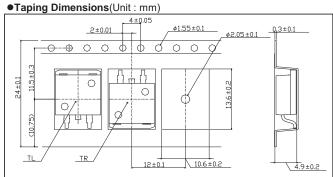


## ●Land Size Figure(Unit: mm)



Structure





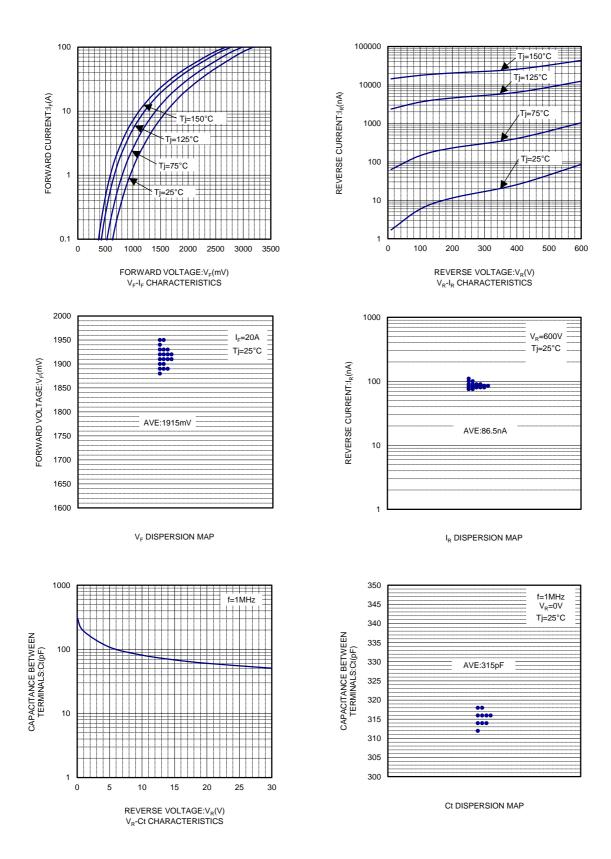
#### ● Absolute Maximum Ratings(Tc=25°C)

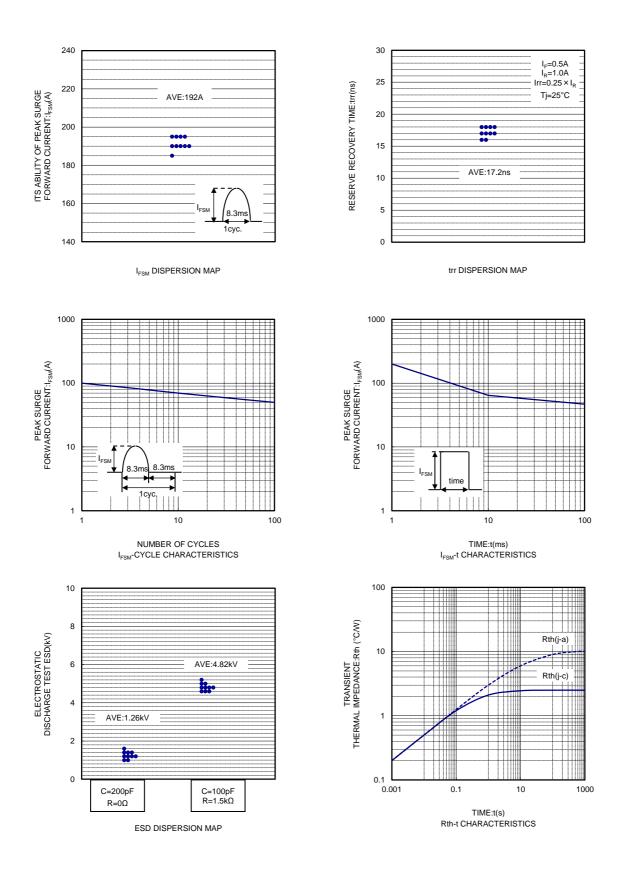
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5		600	V
Reverse voltage	$V_R$	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=27°C	20	Α
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		j=25°C <sup>(*1)</sup> 100	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

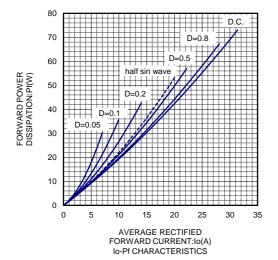
(\*1) 1-3pin common circuit

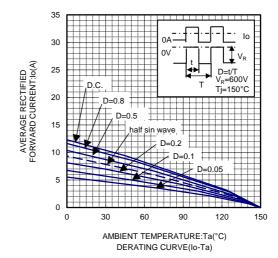
# ●Electrical Characteristics(Tj=25°C)

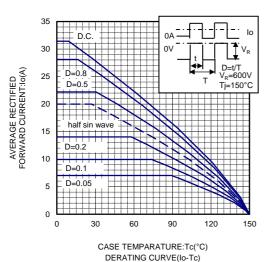
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =20A	_	1.8	2.8	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V	_	0.1	10	μA
Reverse recovery time	trr	$I_F$ =0.5A, $I_R$ =1A, $I_R$ =0.25× $I_R$	_	18	35	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	2.5	°C/W











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