

Super Fast Recovery Diode

RFUH20NS6S

●Serise

Super Fast Recovery

Applications

General rectification

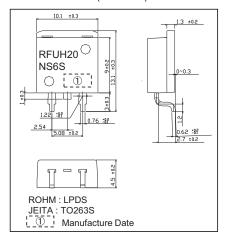
Features

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

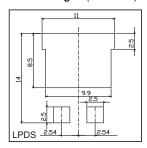
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)

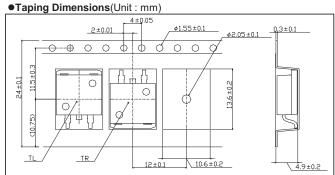


●Land Size Figure(Unit: mm)



Structure





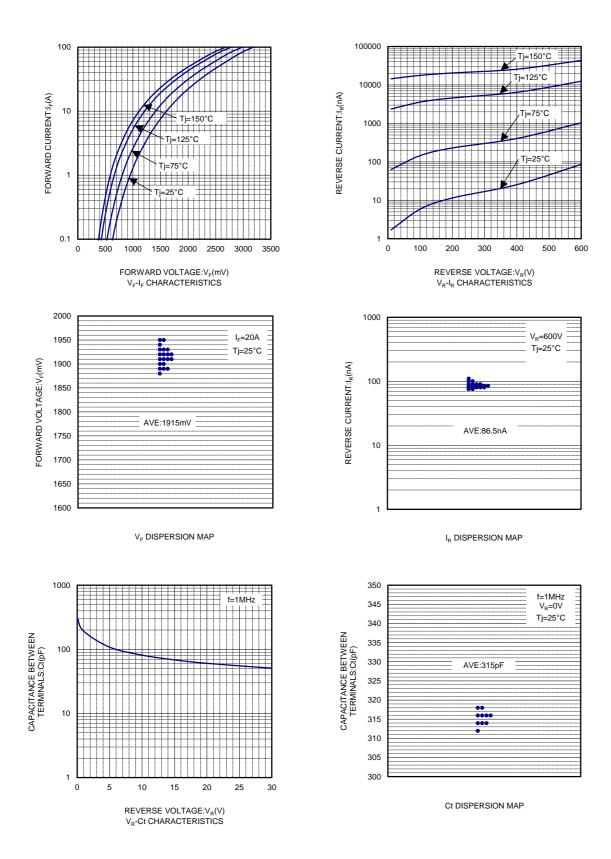
● Absolute Maximum Ratings(Tc=25°C)

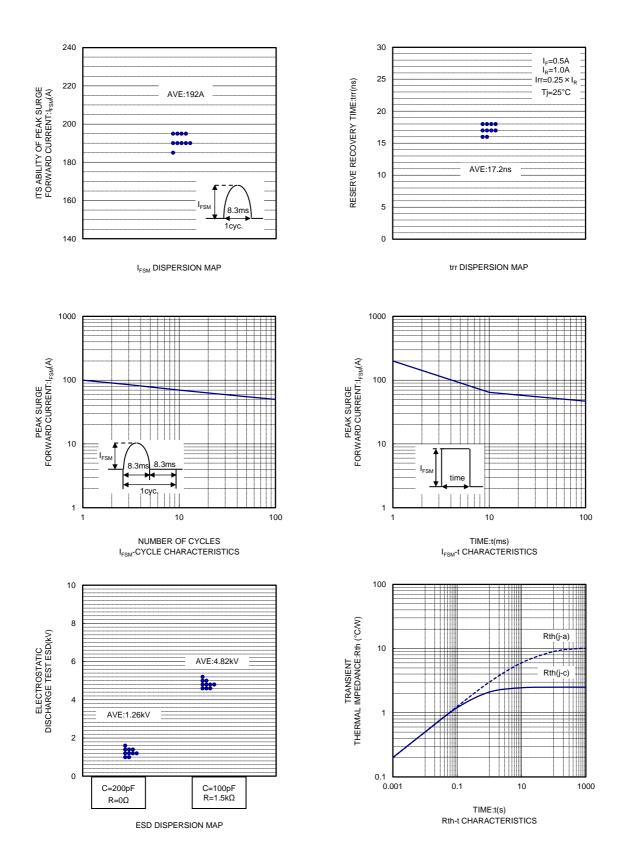
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=27°C	20	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C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

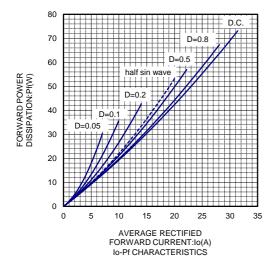
(*1) 1-3pin common circuit

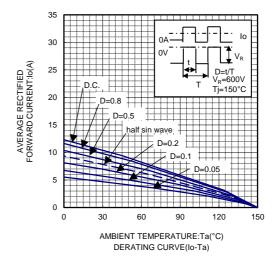
●Electrical Characteristics(Tj=25°C)

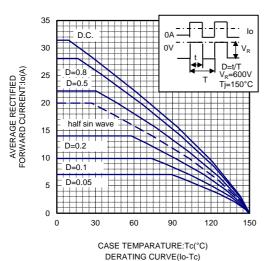
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =20A	_	1.8	2.8	V
Reverse current	I _R	V _R =600V	_	0.1	10	μΑ
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	_	18	35	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	2.5	°C/W











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