

Super Fast Recovery Diode

RFUS20NS6S

Series

Ultra Fast Recovery

Applications

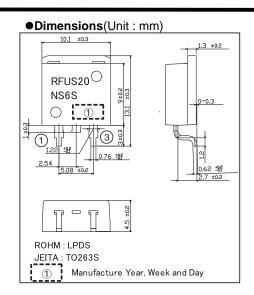
General rectification

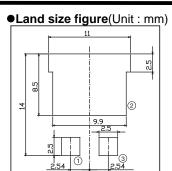
Features

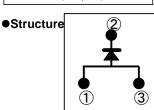
- 1)Ultra low switching loss
- 2) High current overload capacity
- 3)Cathode common single type

Construction

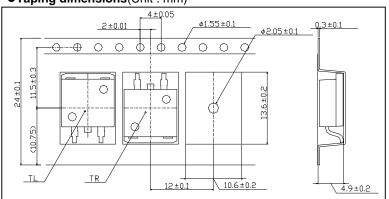
Silicon epitaxial planer











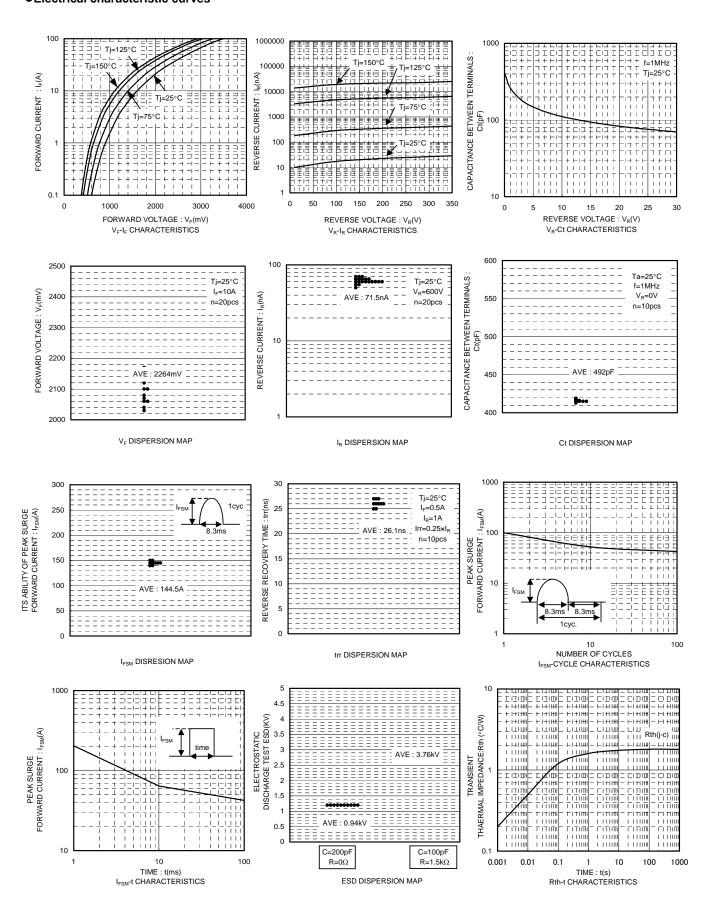
●Absolute maximum ratings (Tc=25°C)

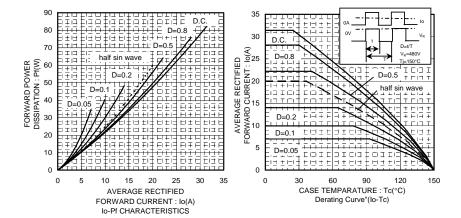
Parameter	Symbol	Conditions	Limits	Unit		
Repetitive peak reverse voltage	V_{RM}	Duty⊴0.5	600	V		
Reverse voltage	V_R	Direct voltage		600	V	
Average rectified forward current	lo	60Hz half sin wave resistive load, 1/2 lo per diode	Tc=36°C	20	Α	
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		100	А	
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	-	2.4	2.8	V
Reverse current	I _R	V _R =600V	-	0.05	10	μΑ
Reverse recovery time	trr	$I_F=0.5A$, $I_R=1A$, $I_R=0.25 \times I_R$	-	23	35	ns
Thermal resistance	Rth(j-c)	junction to case	-	-	2	°C/W

•Electrical characteristic curves





Notes

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