

Super Fast Recovery Diode RFN10TB4S

•Serise Standard East Basev

Standard Fast Recovery

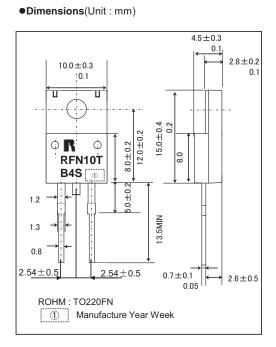
•Applications General rectification

Features

1)Low switching loss

2)High current overload capacity

•Construction Silicon epitaxial planer type



•Structure

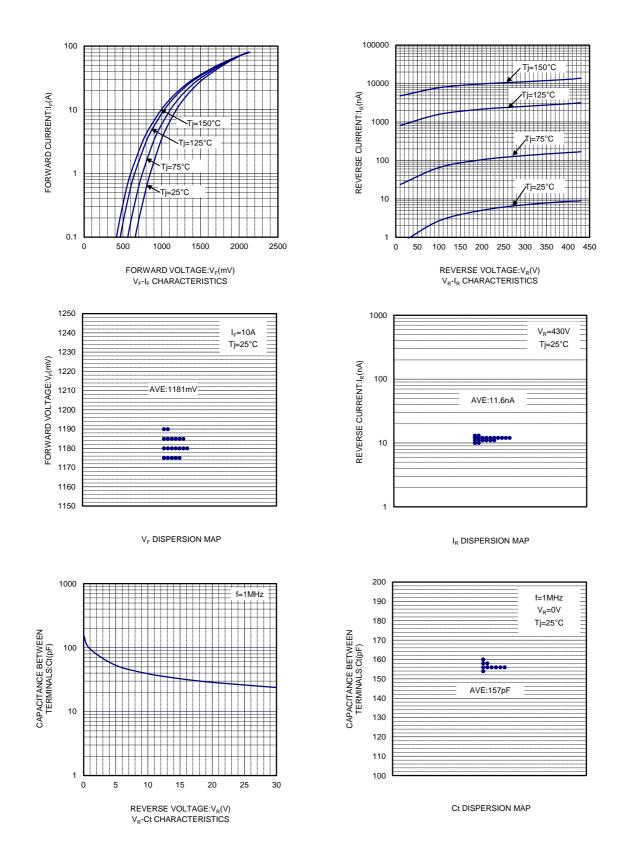


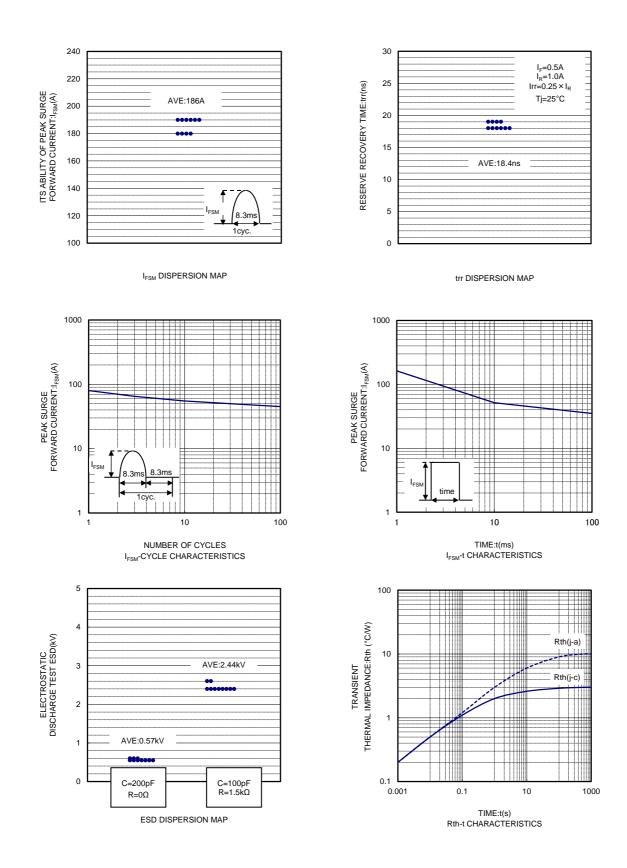
•Absolute Maximum Ratings(TI=25°C)

Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty≦0.5		430	V
Reverse voltage	V _R	Direct voltage		430	V
Average rectified foward current	lo	60Hz Half sin wave , Resistive load	Tc=93°C	10	А
Forward current surge peak	I _{FSM}	60Hz Half sin wave , Non-repetitive a	Tj=25°C 80		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 =10A	-	1.2	1.55	V
Reverse current	I _R	V _R =430V	_	0.05	10	μA
Reverse recovery time	trr	$I_F=0.5A, I_R=1A, Irr=0.25 \times I_R$	—	18	30	ns
Thermal resistance	Rth(j-c)	Junction to case	—	—	3.0	°C/W





Ic

V

D=t/T

120

150

V_R=430V

Tj=150°C

0A

0١

half

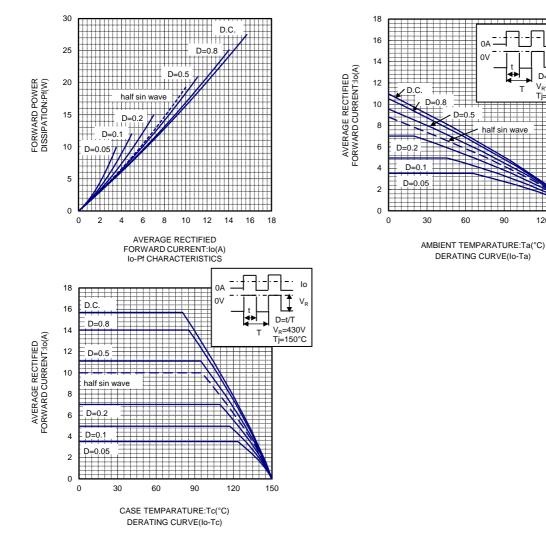
90

0.8

D=0.5 +++-

60

DERATING CURVE(Io-Ta)



	Notes
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