

# Super Fast Recovery Diode

### Applications

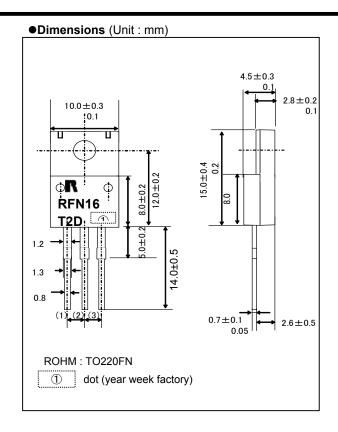
General rectification

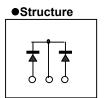
#### Features

- 1)Cathode common Dual type. (TO-220) 2)Low  $V_{\text{F}}$
- 3)Low switching loss

#### Construction

Silicon epitaxial planer





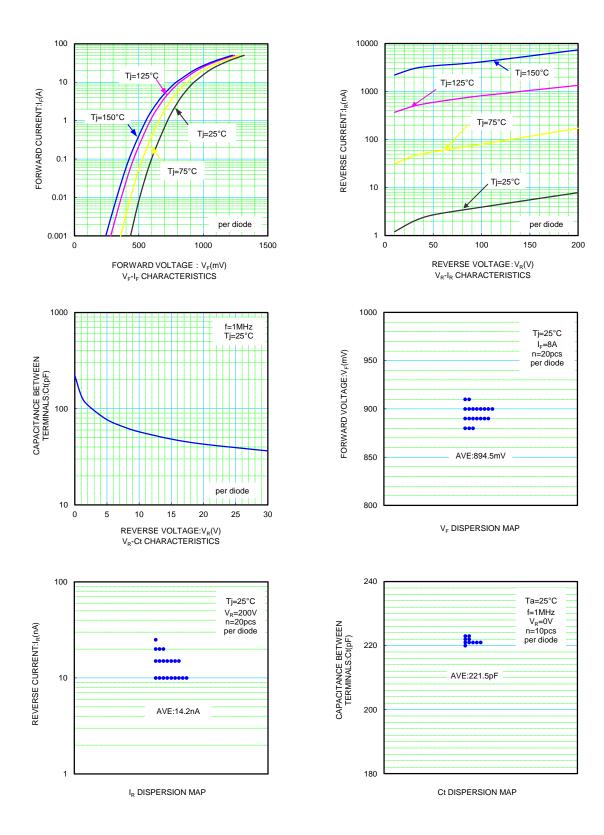
## ●Absolute maximum ratings (Tc=25°C)

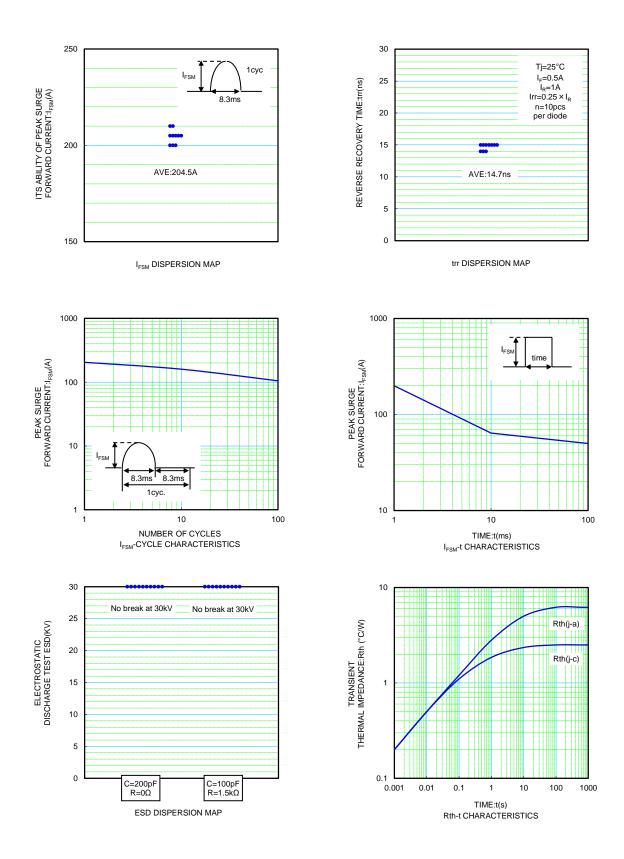
PASSOLUC Maximum rutings (10-20-0)										
Parameter	Symbol	Conditions		Limits	Unit					
Repetitive peak reverse voltage	$V_{RM}$	Duty≤0.5		200	V					
Reverse voltage	$V_R$	Direct voltage		200	V					
Average rectified forward current	lo	60Hz half sin wave, Resistance load, 1/2Io at per diode	Tc=100°C	16	Α					
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		100	Α					
Junction temperature	Tj			150	°C					
Storage temperature	Tstg			-55 to +150	°C					

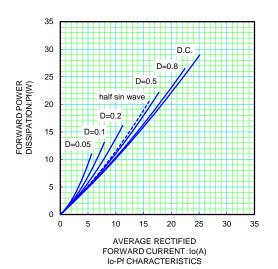
# ●Electrical characteristics (Tj=25°C)

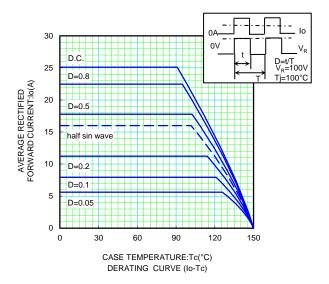
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> =8A	1	0.90	0.98	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V	ı	0.01	10	μA
Reverse recovery time	trr	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25×I <sub>R</sub>	_	16	30	ns
Thermal Resistance	Rth(j-c)	junction to case	_	-	2.5	°C/W

<sup>\*</sup> per diode









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