

Super Fast Recovery Diode

●Serise

Super Fast Recovery

Applications

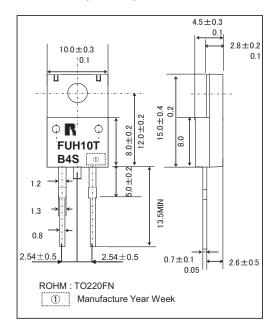
General rectification

● Features

- 1)Ultra low switching loss2)High current overload capacity
- Construction

Silicon epitaxial planer type

● Dimensions (Unit: mm)



Structure

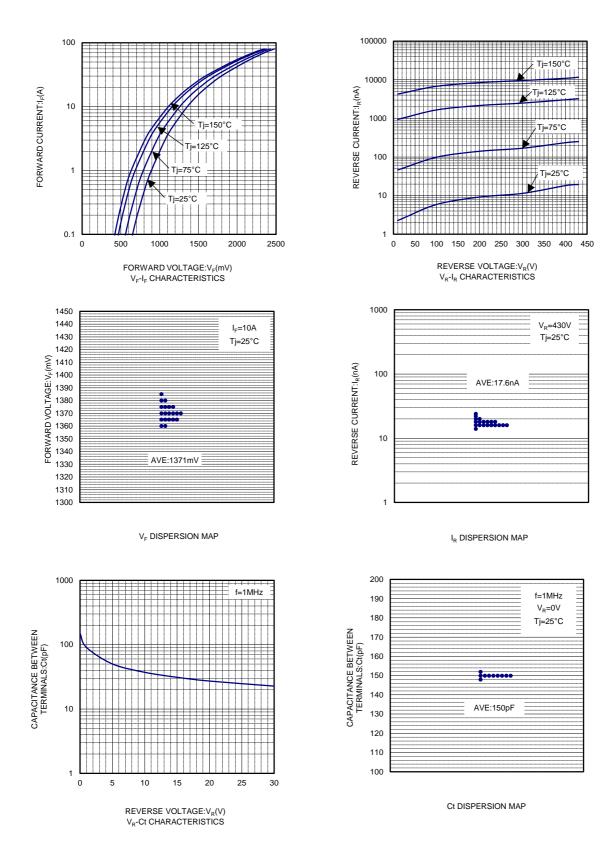


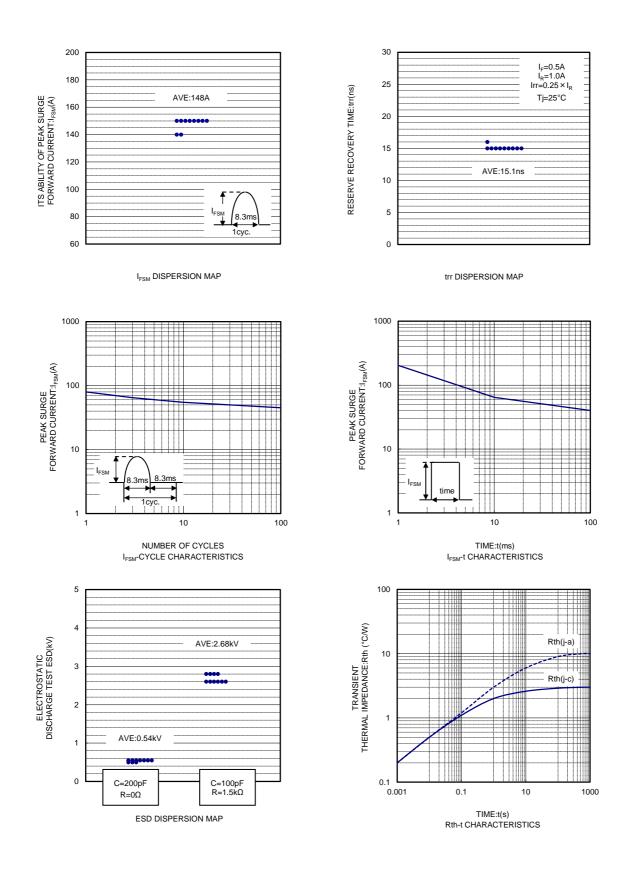
● Absolute Maximum Ratings(Tc=25°C)

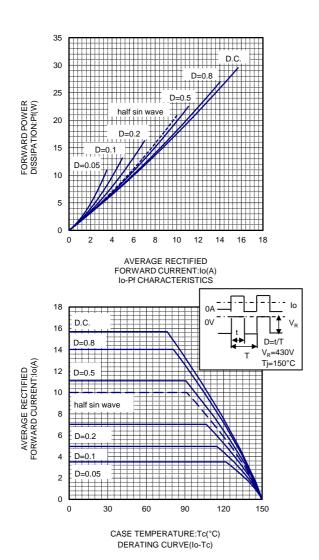
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		430	V
Reverse voltage	V_R	Direct voltage		430	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=90°C	10	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C		Tj=25°C 80	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

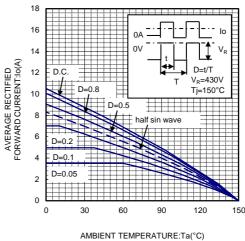
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =10A	-	1.4	1.7	V
Reverse current	I _R	V _R =430V	_	0.05	10	μA
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	_	15	25	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	3.0	°C/W









AMBIENT TEMPERATURE:Ta(°C DERATING CURVE(Io-Ta)

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