



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Super Fast Recovery Diode

RF505TF6S

●Series

Standard Fast Recovery

●Applications

General rectification

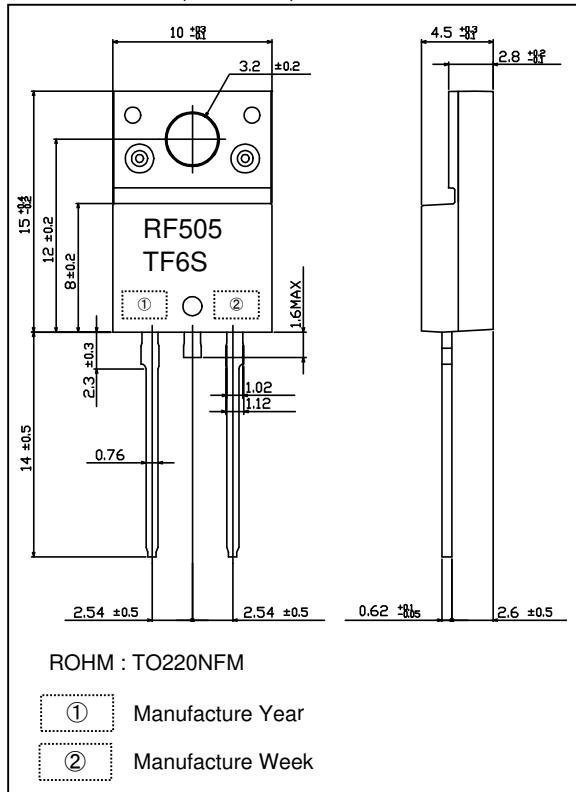
●Features

- 1) Low switching loss
- 2) High current overload capacity

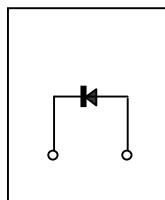
●Construction

Silicon epitaxial planer

●Dimensions (Unit : mm)



●Structure

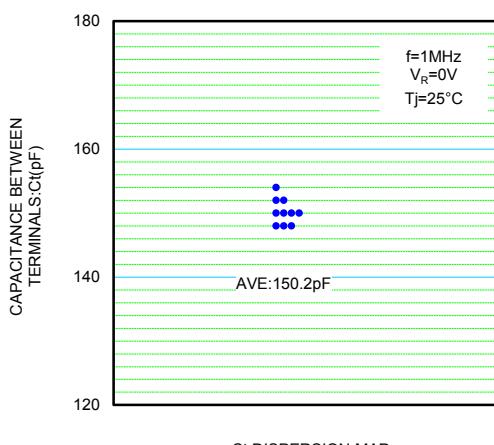
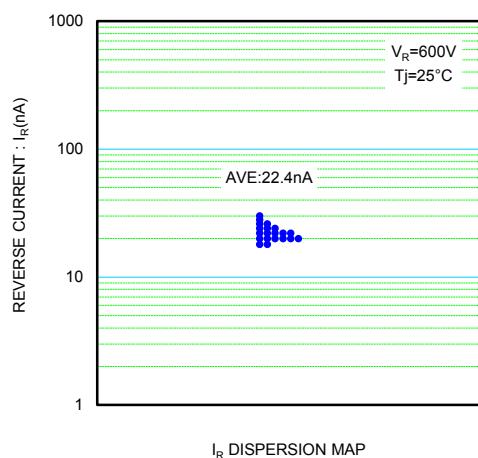
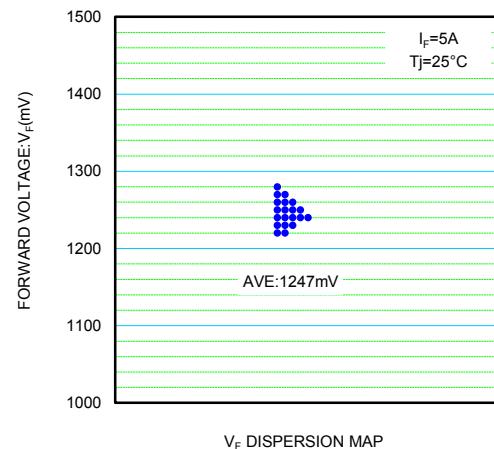
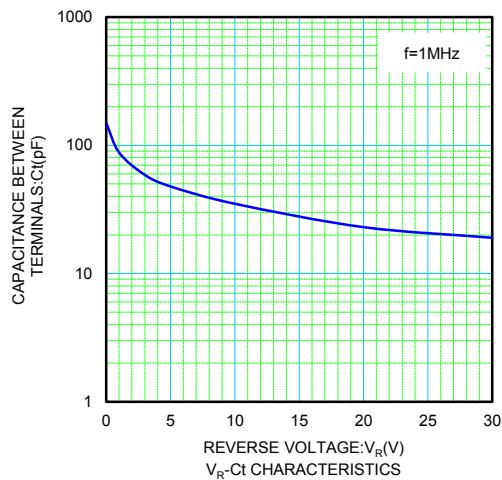
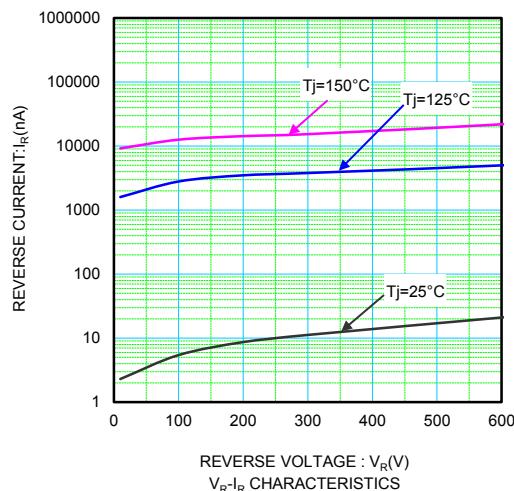
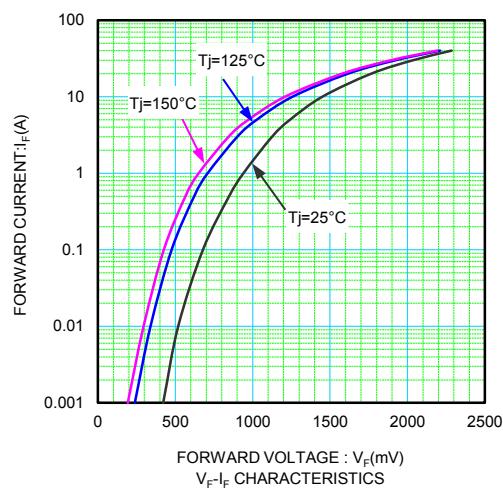


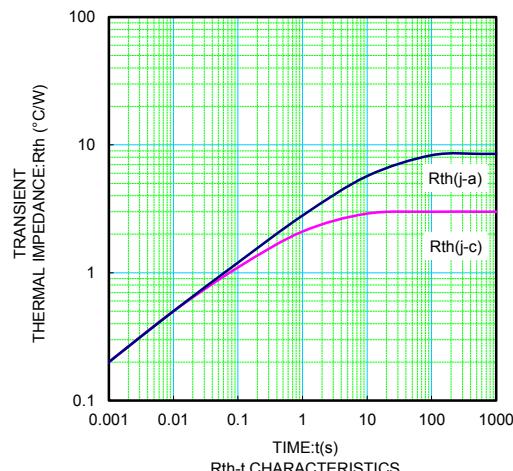
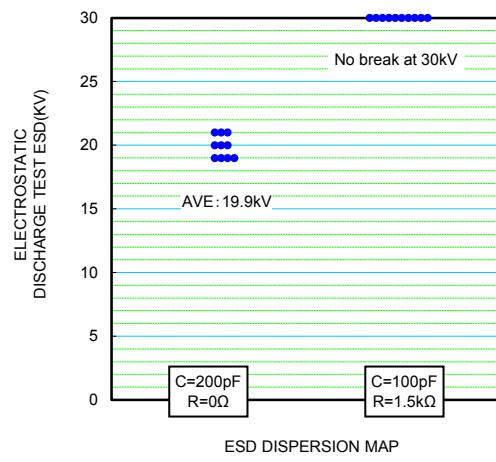
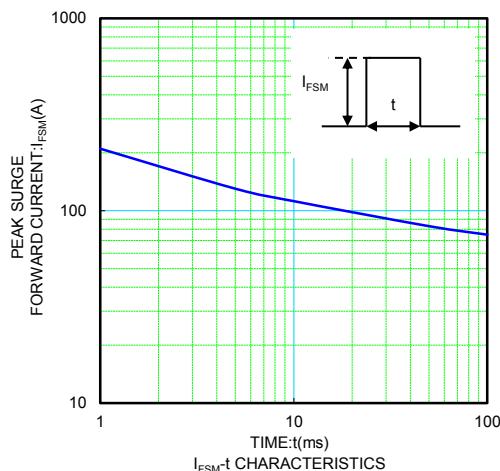
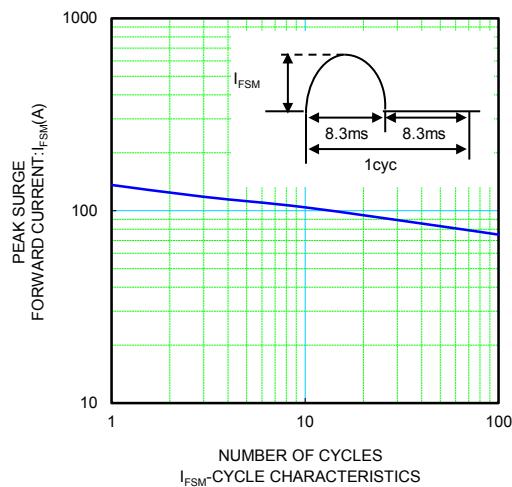
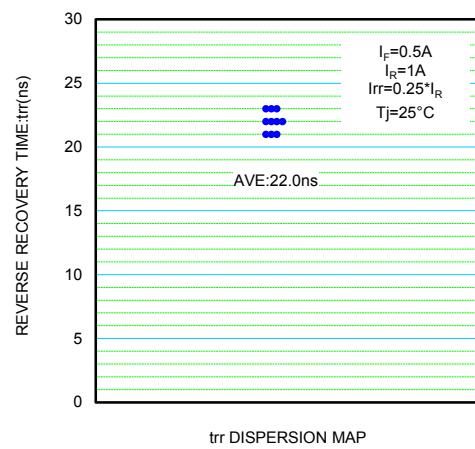
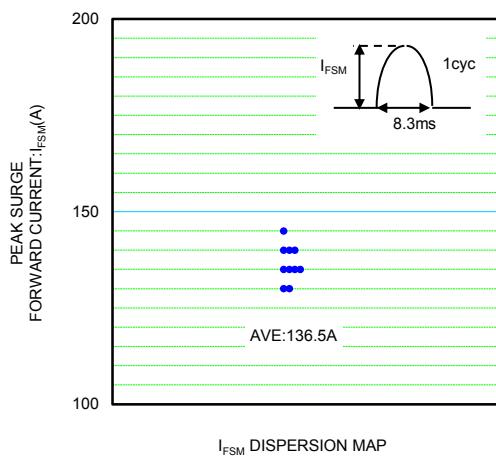
●Absolute maximum ratings (Tc=25°C)

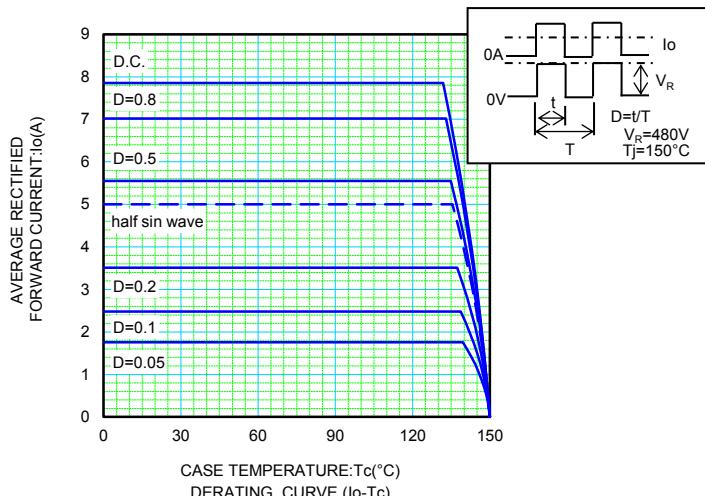
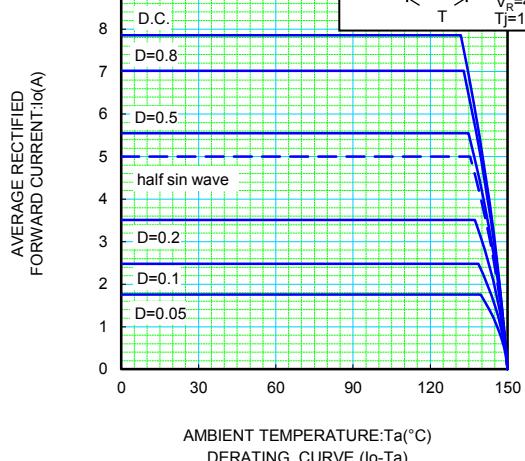
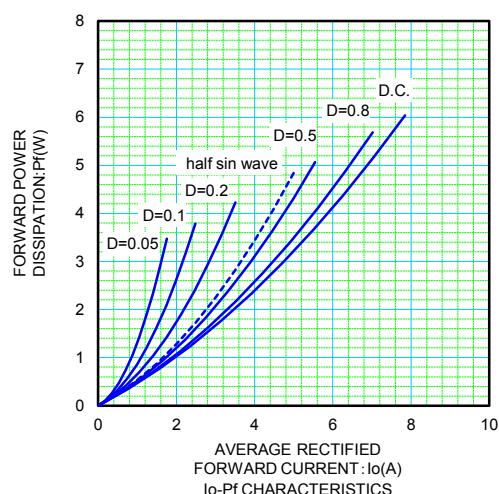
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty≤0.5	600	V
Reverse voltage	V _R	Direct voltage	600	V
Average rectified forward current	I _o	60Hz half sin wave, Resistance load, Tc=125°C	5	A
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, T _j =25°C	80	A
Junction temperature	T _j		150	°C
Storage temperature	T _{stg}		-55 to +150	°C

●Electrical characteristics (T_j=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =5A	—	1.3	1.7	V
Reverse current	I _R	V _R =600V	—	0.03	10	μA
Reverse recovery time	trr	I _F =0.5A, I _R =1A, Irr=0.25×I _R	—	22	30	ns
Thermal resistance	R _{th(j-c)}	junction to case	—	—	3	°C/W







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