

# WFV16H20D, WFAT16H20D, WFCT16H20D-HAF

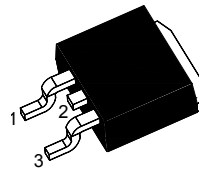
## Super Fast Recovery Rectifier

Reverse Voltage -200 V  
Forward Current - 16 A

### Features

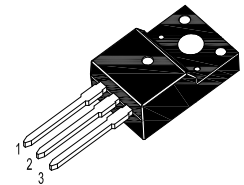
- High current capability
- High surge current capability
- Halogen and Antimony Free(HAF),  
RoHS compliant

WFV16H20D



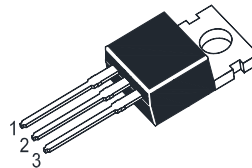
1.Anode 2.Cathode 3.Anode  
TO-263 Plastic Package

WFAT16H20D

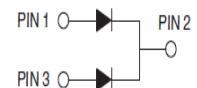


1.Anode 2.Cathode 3.Anode  
TO-220F Plastic Package

WFCT16H20D



1.Anode 2.Cathode 3.Anode  
TO-220FB Plastic Package

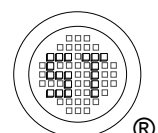


### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Average Rectified Forward Current Total Device Per Diode	$I_{F(AV)}$	16 8	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	85	A
Maximum Forward Voltage at 8 A	$V_F$	1	V
Maximum Reverse Current Rated DC Blocking Voltage	$I_R$	5 500	$\mu\text{A}$
Typical Junction Capacitance at $V_R = 4\text{V}$ , $f = 1\text{MHz}$	$C_J$	85	pF
Maximum Reverse Recovery Time at $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$ , $I_{rr} = 0.25\text{A}$	$t_{rr}$	35	ns
Operating Junction and Storage Temperature Range	$T_J, T_{stg}$	- 65 to + 150	$^\circ\text{C}$

### Thermal Characteristics (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	WFV16 H20D	WFAT16 H20D	WFCT16 H20D	Unit
Typical Thermal Resistance-Junction to Case	$R_{\theta JC}$	4.3	8.5	4.3	$^\circ\text{C/W}$



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## Electrical Characteristics Curves

Fig 1. Reverse Characteristic Curve

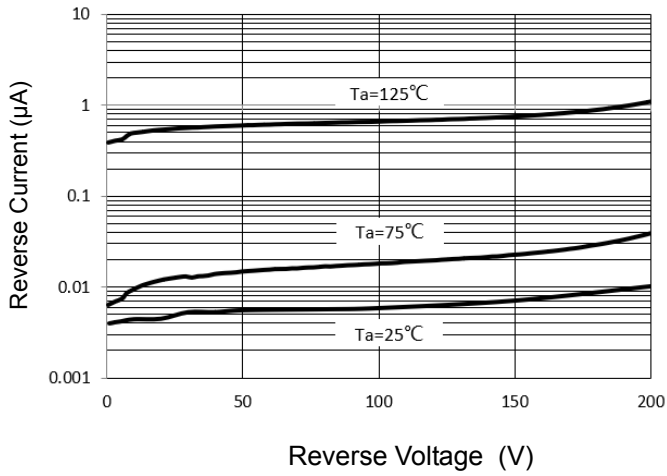


Fig 2. Forward Characteristic Curve

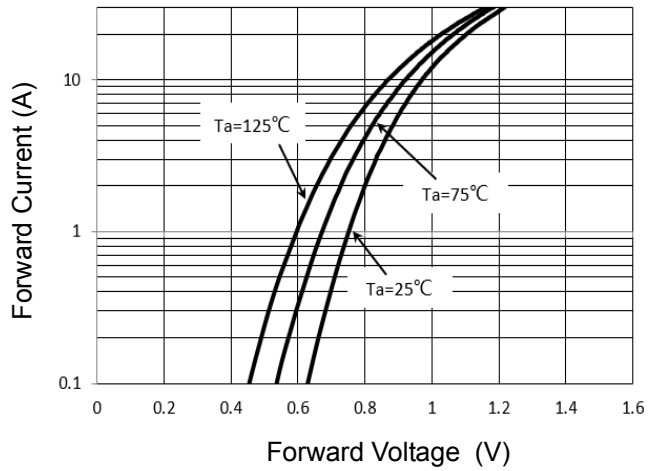


Fig3. Thermal Resistance Curve

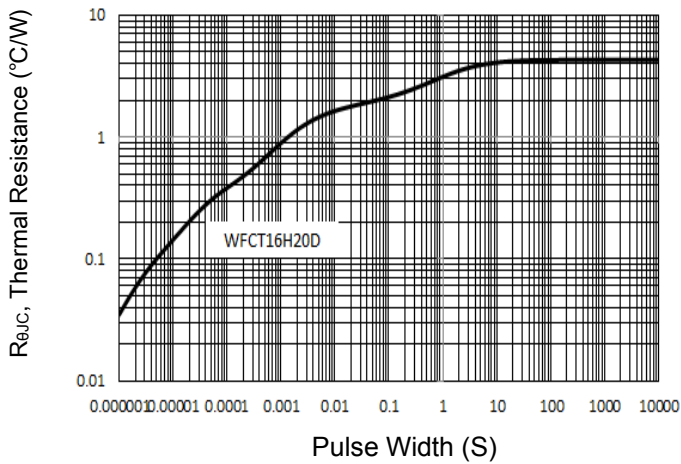


Fig 4. Junction Capacitance

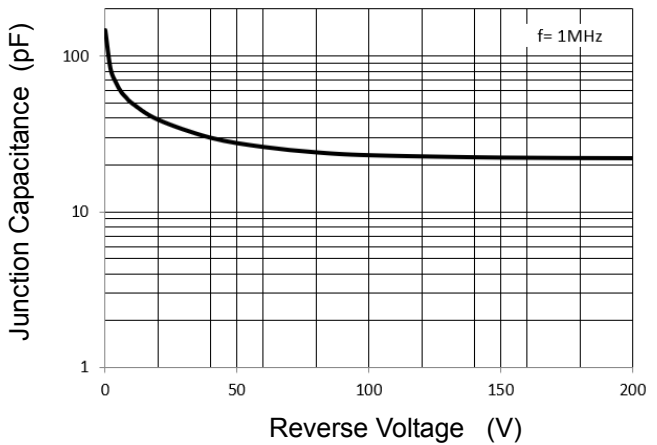
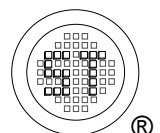
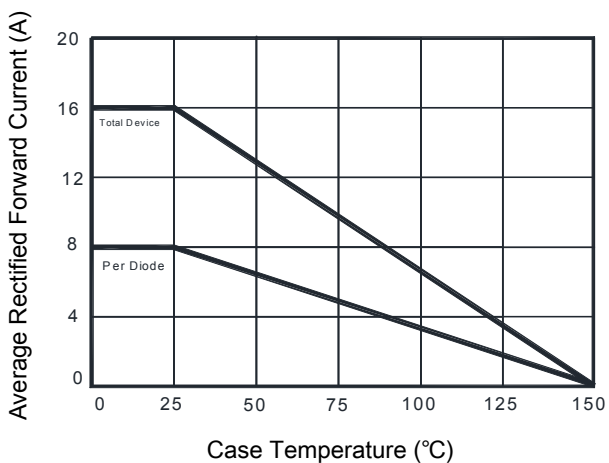
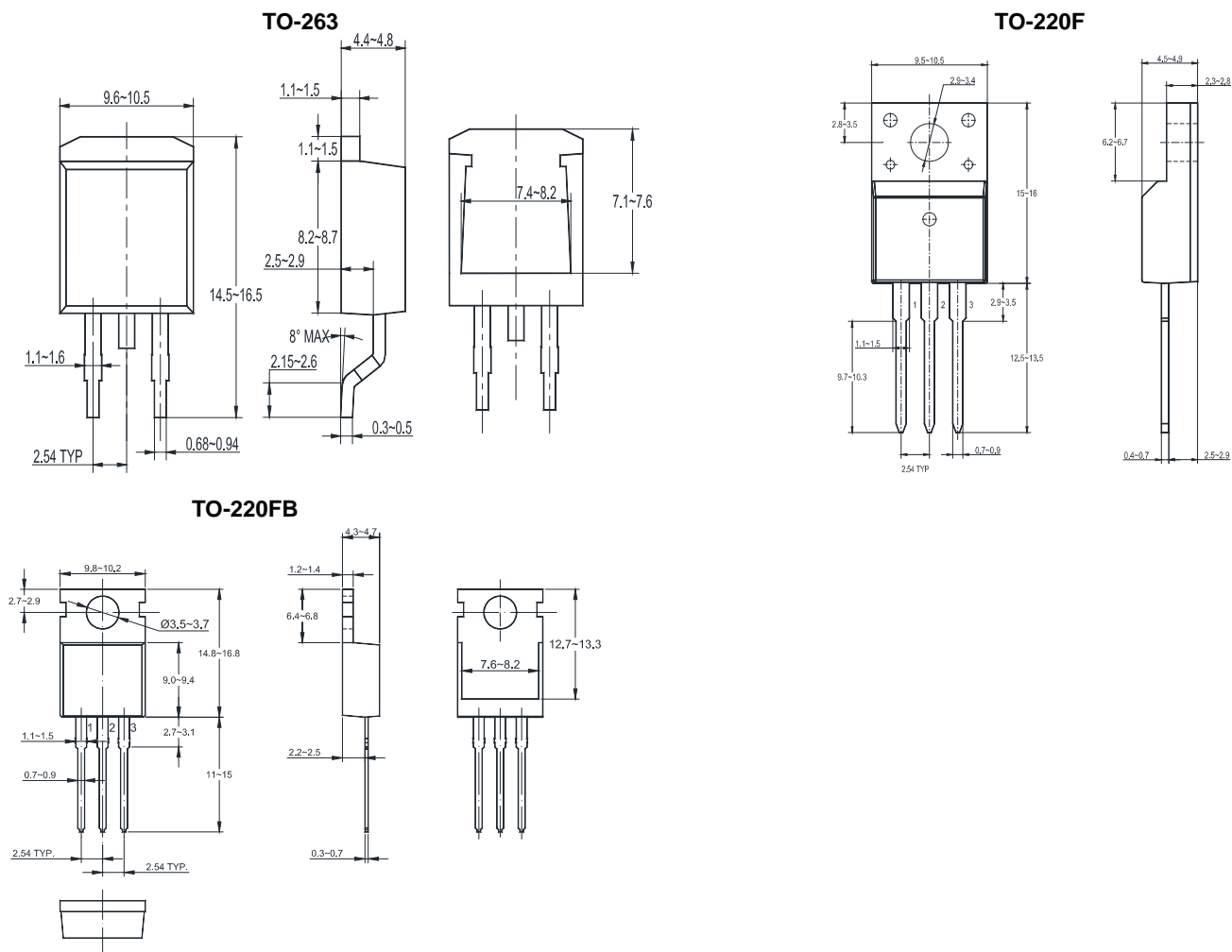


Fig 5. Forward Current Derating Curve

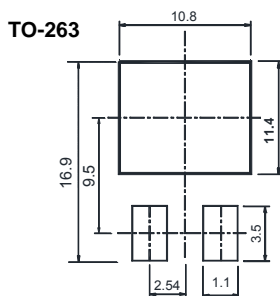


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## Package Outline Dimensions (Units: mm)



## Recommended Soldering Footprint



## Packing information

Package	Type	Carton Quantity	Box Quantity	Base Quantity	Delivery Mode
TO-263	WFV16H20D	4 K / Carton	800 pcs / Box	800 pcs / Reel	Reel
TO-220F	WFAT16H20D	5 K / Carton	1 K / Box	50 pcs / Tube	Tube
TO-220FB	WFCT16H20D	5 K / Carton	1 K / Box	50 pcs / Tube	Tube

## Marking information

" \*\*\*\*\* " = Date Code Marking

Font type: Arial

