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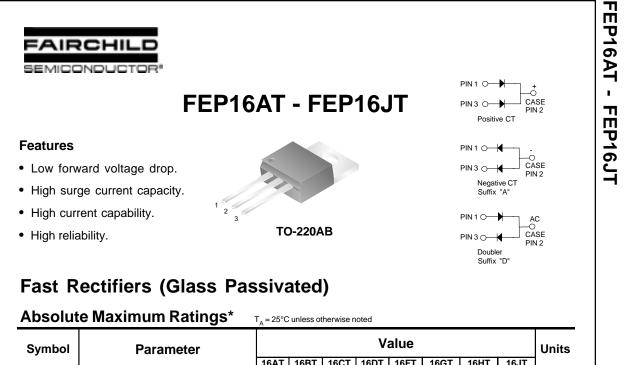


ON Semiconductor®

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Symbol	Parameter	Value								Units
-		16AT	16BT	16CT	16DT	16FT	16GT	16HT	16JT	1
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	150	200	300	400	500	600	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ $T_A = 100^{\circ}C$					16				A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200						A		
T _{sta}	Storage Temperature Range	-55 to +150								°C
TJ	Operating Junction Temperature				-55	to +150)			°C
4	•									

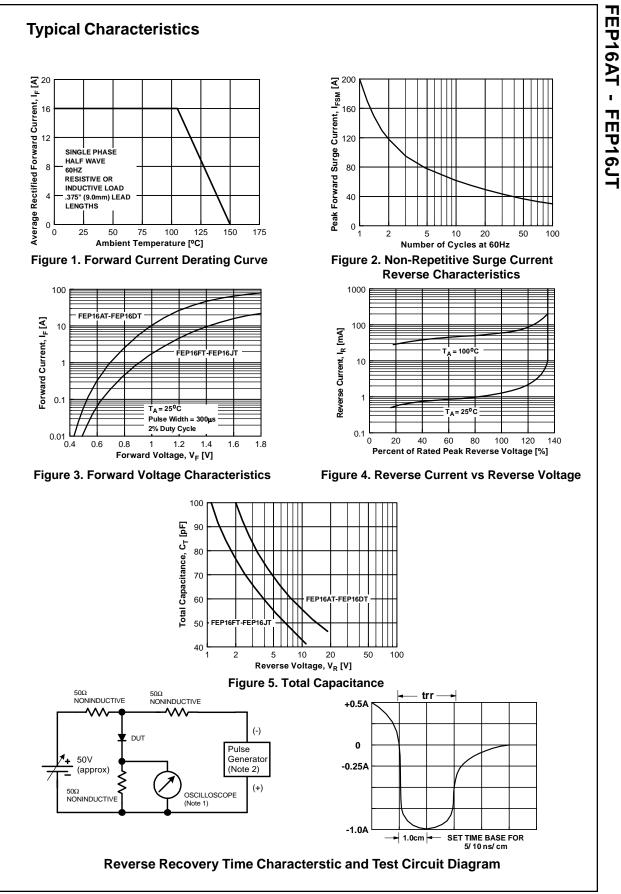
*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	8.33	W
R _{θJA}	Thermal Resistance, Junction to Ambient	15	°C/W
$R_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	Thermal Resistance, Junction to Lead	2.2	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device								
		16AT	16BT	16CT	16DT	16FT	16GT	16HT	16JT	
V _F	Forward Voltage @ 8.0A	0.95 1.3 1.5				.5	V			
t _{rr}	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{RR} = 0.25 \text{ A}$	35					5	50	ns	
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	10 500						μΑ μΑ		
C _T	Total Capacitance $V_{R} = 4.0. f = 1.0 MHz$	85 60						pF		



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