

Symbol	Parameter	Value								Units
		16AT	16BT	16CT	16DT	16FT	16GT	16HT	16JT	
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	250						A		
T _{sta}	Storage Temperature Range	-65 to +150					V			
T,	Operating Junction Temperature	-65 to +150					pF			

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

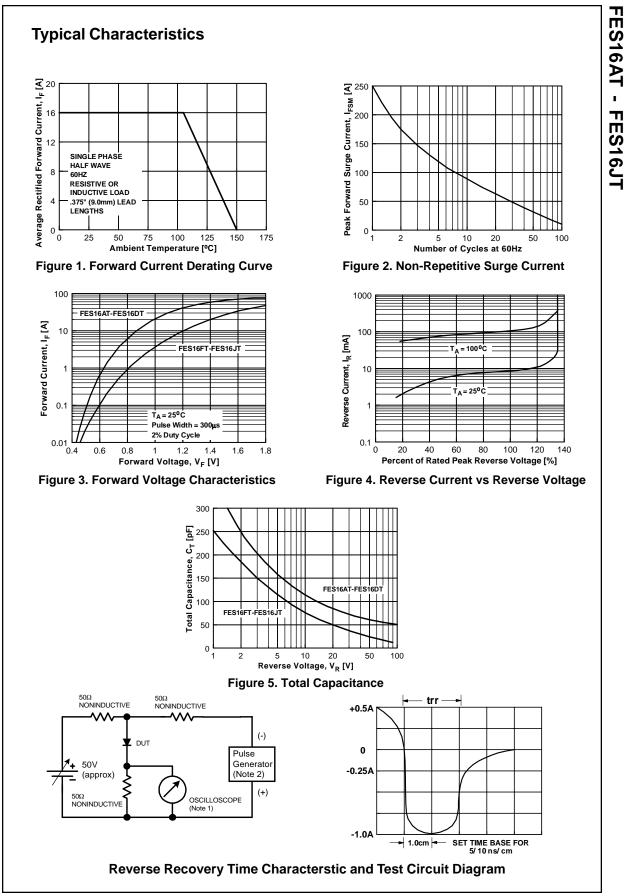
Thermal Characteristics

Symbol	Parameter	Value	Units	
P _D	Power Dissipation	7.81	W	
R _{eJA}	Thermal Resistance, Junction to Ambient	16	°C/W	
$R_{ extsf{ heta}JL}$	Thermal Resistance, Junction to Lead	1.2	°C/W	

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device								Units
		16AT	16BT	16CT	16DT	16FT	16GT	16HT	16JT	
V _F	Forward Voltage @ 8.0A	0.95 1.3				1.	.5	V		
t _{rr}	Reverse Recovery Time $I_F = 0.5 A$, $I_R = 1.0 A$, $I_{RR} = 0.25 A$	35 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	170 145					15	pF		

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FES16AT - FES16JT, Rev. C

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