

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							
TJ	Operating Junction Temperature	-65 to +150					pF			

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

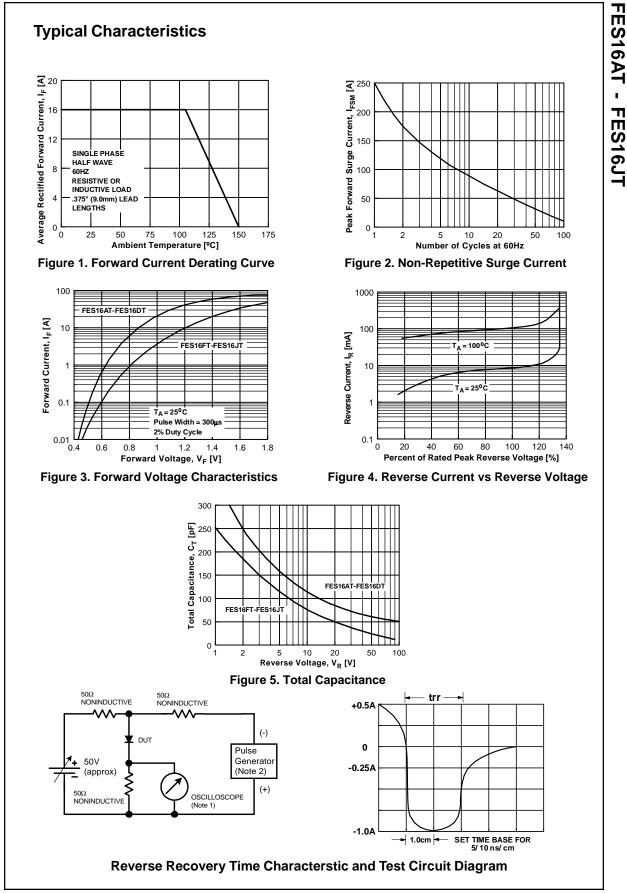
Thermal Characteristics

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