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FEP16AT - FEP16JT

PIN 1 O CASE PIN 2 Positive CT

PIN 1 O

Features

- Low forward voltage drop.
- High surge current capacity.
- High current capability.
- High reliability.





Fast Rectifiers (Glass Passivated)

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

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°C				Α					
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200			А					
T _{sta}	torage Temperature Range -55 to +150			°C						
TJ	Operating Junction Temperature	-55 to +150			°C					

^{*}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
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	15	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead	2.2	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Symbol Parameter		Device							Units
			16BT	16CT	16DT	16FT	16GT	16HT	16JT	1
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					
Ст	Total Capacitance V _R = 4.0. f = 1.0 MHz	85 60		60	pF					

Typical Characteristics

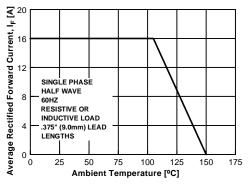


Figure 1. Forward Current Derating Curve

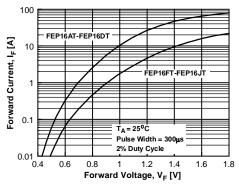


Figure 3. Forward Voltage Characteristics

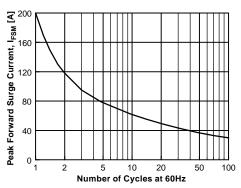


Figure 2. Non-Repetitive Surge Current Reverse Characteristics

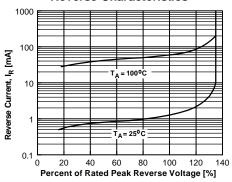


Figure 4. Reverse Current vs Reverse Voltage

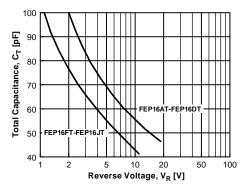
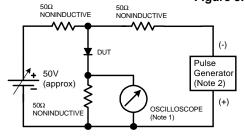
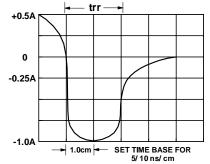


Figure 5. Total Capacitance





Reverse Recovery Time Characterstic and Test Circuit Diagram

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NCL30000LED2GEVB NCN9252MUGEVB NCP1075PSRGEVB NCV4274CDT33RKG NCV887100D1R2G NDT2955 1N5339B
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