

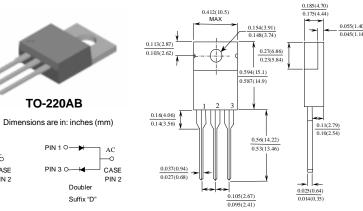
### Discrete POWER & Signal **Technologies**

# FEP16AT - FEP16JT

#### **Features**

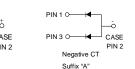
- Low forward voltage drop.
- High surge current capacity.
- High current capability.
- High reliability.







Positive CT





# 16 Ampere Glass Passivated Super Fast Rectifiers

## **Absolute Maximum Ratings\***

T<sub>A</sub> = 25°C unless otherwise noted

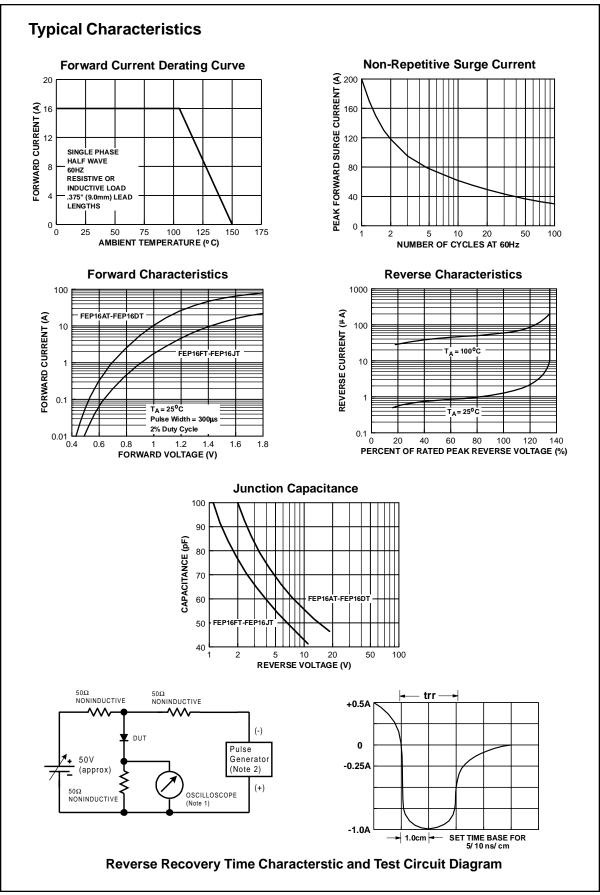
Symbol	Parameter	Value	Units
lo	Average Rectified Current .375 " lead length @ T <sub>A</sub> = 100°C	16	А
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	200	А
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	8.33 66	W mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	15	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead	2.2	°C/W
T <sub>stg</sub>	Storage Temperature Range	-65 to +150	°C
TJ	Operating Junction Temperature	-65 to +150	°C

<sup>\*</sup>These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### **Electrical Characteristics**

 $T_A = 25$ °C unless otherwise noted

Paramet	Device							Units		
		16AT	16BT	16CT	16DT	16FT	16GT	16HT	16JT	
Peak Repetitive Reverse Voltage		50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	)	35	70	105	140	210	280	350	420	V
DC Blocking Voltage	(Rated V <sub>R</sub> )	50	100	150	200	300	400	500	600	V
Maximum Reverse Current @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		10 500						μΑ μΑ		
Maximum Reverse Red I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0	35 50					nS				
Maximum Forward Volt	0.95				1.3		1	.5	V	
Typical Junction Capac V <sub>R</sub> = 4.0. f = 1.0 MH	85 60						pF			



FEP16AT - FEP16JT, Rev. A

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