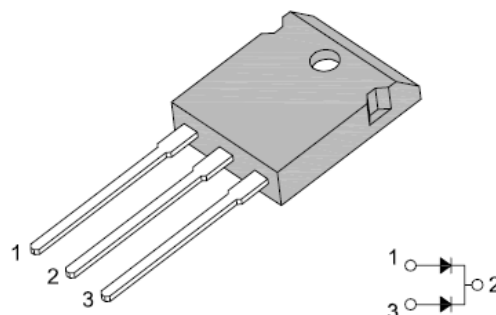


30A Fast Efficient Rectifiers

Features

- Glass passivated chip junction
- Ultrafast recovery time
- Low switching losses, high efficiency
- Low thermal resistance
- High forward surge capability
- RoHS Compliance



TO-3P



Mechanical Data

Case:	TO-3P, molded plastic body over passivated chips
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Polarity:	As marked
Weight:	0.22 ounce, 6.2 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	FEP 30AP	FEP 30BP	FEP 30CP	FEP 30DP	FEP 30FP	FEP 30GP	FEP 30HP	FEP 30JP	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	500	600	V	
V_{RMS}	Maximum RMS Voltage	35	70	105	140	210	280	350	420	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	150	200	300	400	500	600	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	30								A	$T_C=100^{\circ}\text{C}$
I_{FSM}	Peak Forward Surge Current per leg	300								A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Maximum Instantaneous Forward Voltage per leg	0.95				1.3		1.5		V	$I_F=15.0\text{A}$

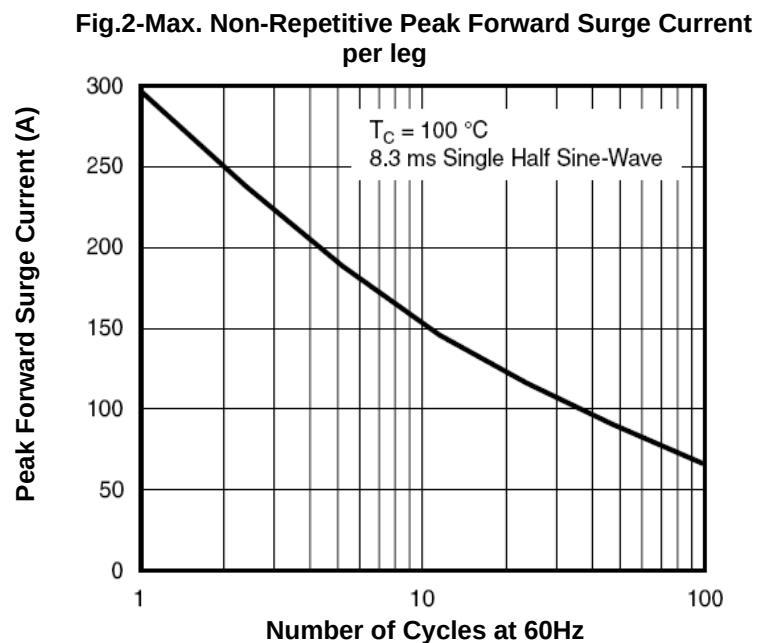
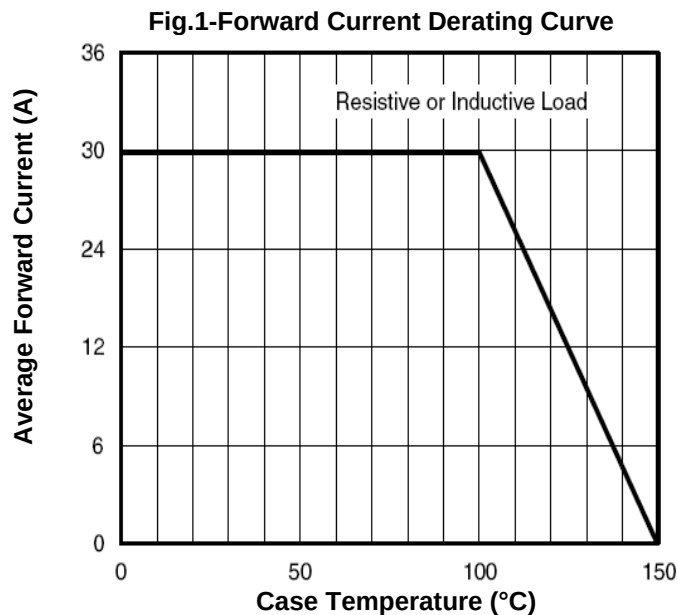
30A Fast Efficient Rectifiers

FEP30AP - FEP30JP

Symbol	Description	FEP 30AP	FEP 30BP	FEP 30CP	FEP 30DP	FEP 30FP	FEP 30GP	FEP 30HP	FEP 30JP	Unit	Conditions
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10								μA	TC=25° C
		500									TC=100° C
T _{rr}	Typical Reverse Recovery Time per leg	35				50				nS	IF=0.5A, IR=1A, Irr=0.25A
C _J	Typical Junction Capacitance per leg	175						145		pF	VR=4V, f=1MHz
R _{thJC}	Typical Thermal Resistance from Junction to Case per leg	1.0								° C/W	Note 1
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150								° C	

Note: 1. Thermal resistance from junction to case per diode mounted on heatsink.

Typical Characteristics Curves



30A Fast Efficient Rectifiers

FEP30AP - FEP30JP

Fig.3- Typical Instantaneous Forward Characteristics per leg

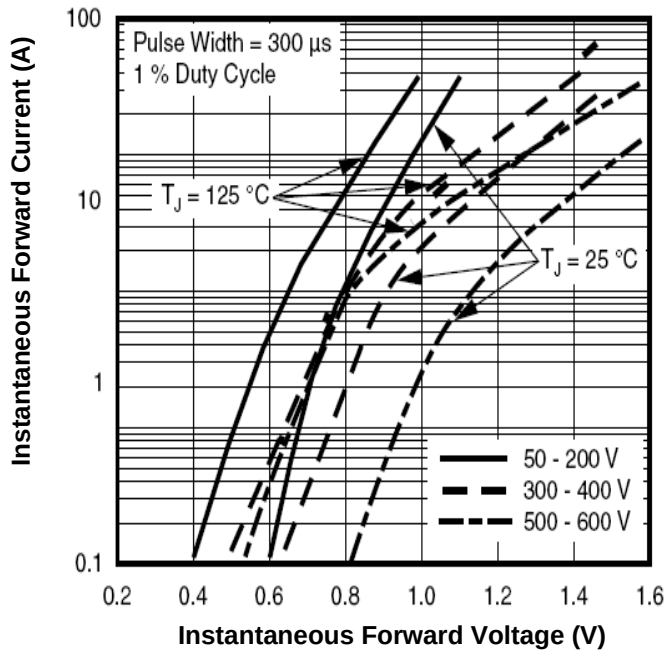


Fig.4-Typical Reverse Characteristics per leg

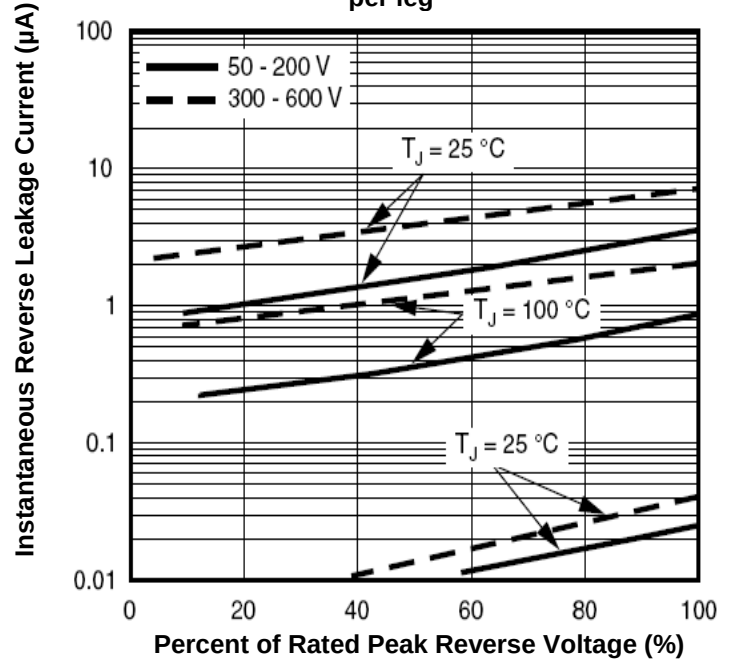
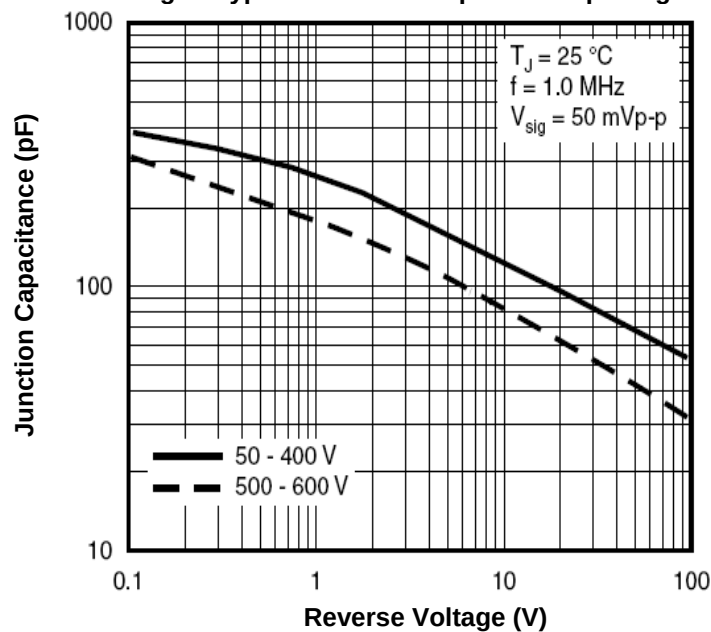


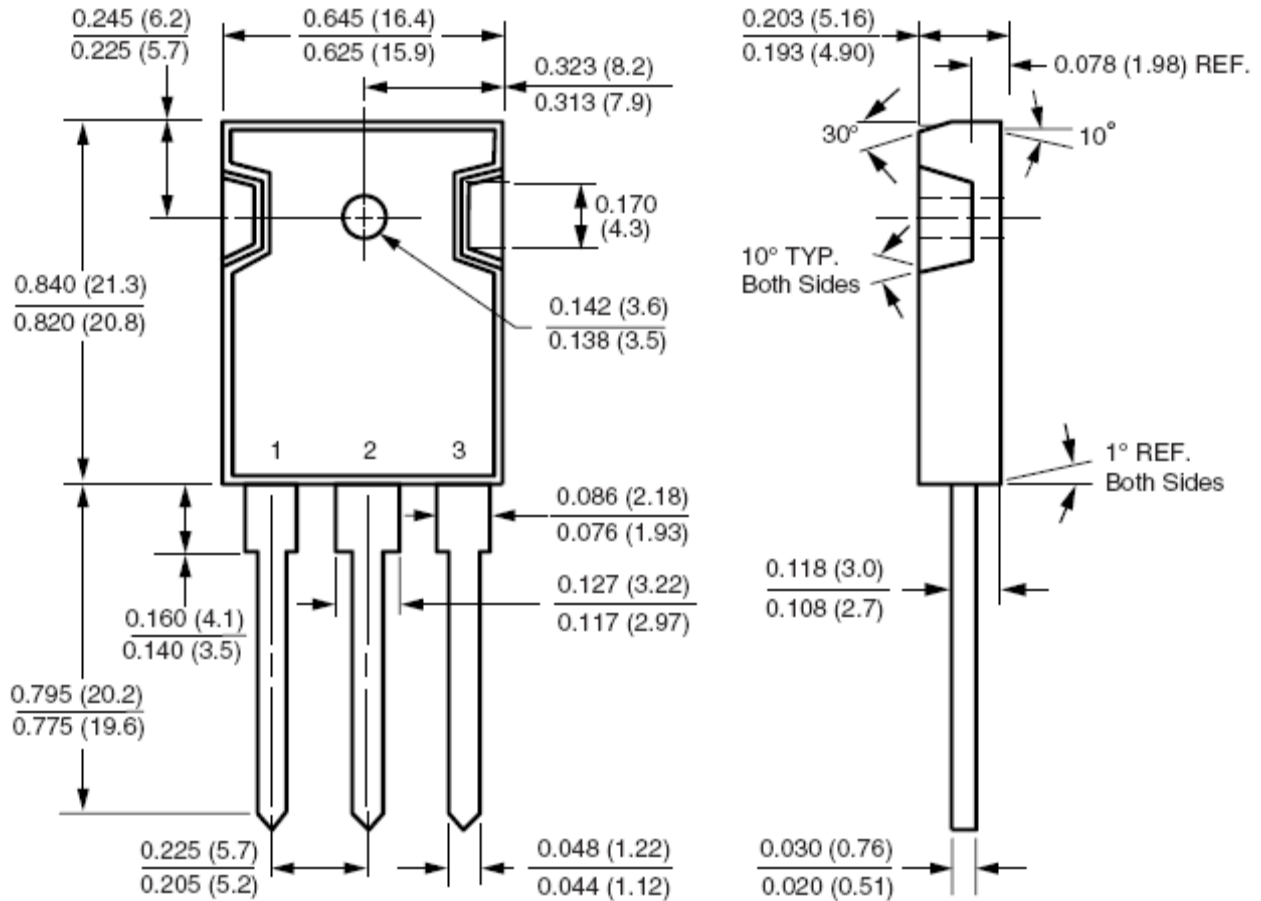
Fig.5- Typical Junction Capacitance per leg



30A Fast Efficient Rectifiers

FEP30AP - FEP30JP

Dimensions in inches (mm)



30A Fast Efficient Rectifiers

FEP30AP - FEP30JP

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931