



Micro Commercial Components

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# EGP30A THRU EGP30K

## Features

- Superfast recovery time for high efficiency
- Glass passivated cavity-free junction, Plastic case

### 3.0 Amp Glass Passivated High Efficient Rectifiers 50 to 800 Volts

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient

DO-201AD

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
EGP30A	50V	35V	50V
EGP30B	100V	70V	100V
EGP30D	200V	140V	200V
EGP30F	300V	210V	300V
EGP30G	400V	280V	400V
EGP30J	600V	420V	600V
EGP30K	800V	560V	800V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	3.0 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	125A	8.3ms, half sine
Maximum Instantaneous Forward Voltage EGP30A-30D EGP30F-30G EGP30J-30K	$V_F$	1.00V 1.25V 1.70V	$I_F=3.0A$ $T_A=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0uA 100uA	$T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$
Reverse Recovery Time EGP30A-30G EGP30J-30K	$T_{rr}$	50nS 75nS	$T_A=25^\circ\text{C}$ $I_F=0.5A, I_R=1.0A,$ $I_r=0.25A$
Typical Junction Capacitance EGP30A-30D EGP30F-30K	$C_J$	95pF 75pF	Measured at $f=1.0\text{MHz}$ $V_R=4.0V$