

3. Dimensions and Mechanical Characteristics

Dimensions in mm.	DO-201AD (Plastic)	Voltage 50 to 400 V.	Current 3 A at 55 °C.
Mounting instructions <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body. 		<ul style="list-style-type: none"> • Glass Passivated Junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode 	

Maximum Ratings, according to IEC publication No. 134

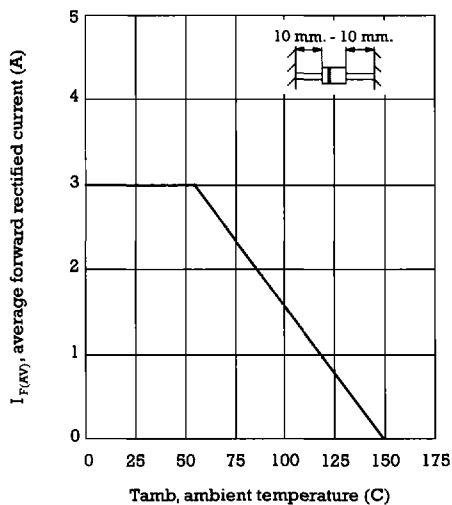
		EGP30A	EGP30B	EGP30D	EGP30F	EGP30G
V_{RRM}	Peak Recurrent reverse voltage (V)	50	100	200	300	400
V_{RMS}	Maximum RMS voltage	35	70	140	210	280
V_{DC}	Maximum DC blocking voltage	50	100	200	300	400
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	3 A				
I_{FRM}	Recurrent peak forward current	30 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A				
t_{tr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	50 ns				
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	90 pF			45 pF	
T_j	Max. operating temperature	+ 150 °C				
T_{stg}	Storage temperature range	- 65° to + 150 °C				
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	20 mJ				

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

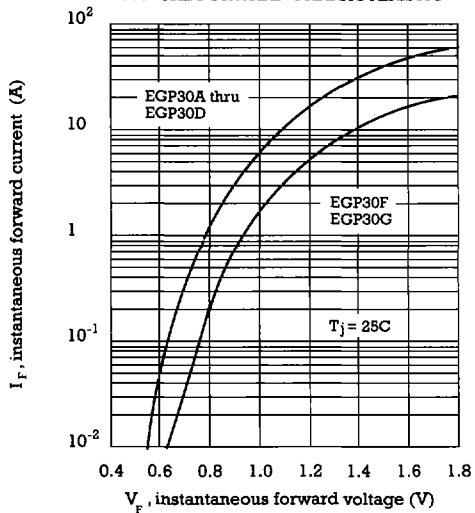
V_F	Max. forward voltage drop at $I_F = 3\text{ A}$	0.95 V	1.25 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 $\mu\text{ A}$ 50 $\mu\text{ A}$	
R_{thj-a}	Max. thermal resistance ($l = 10\text{ mm.}$)	30 °C/W	

Rating And Characteristic Curves

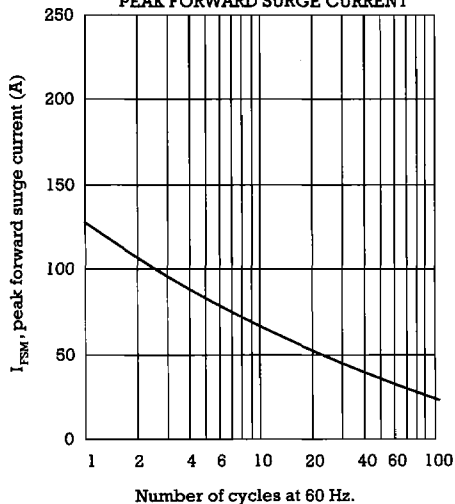
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETTIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

