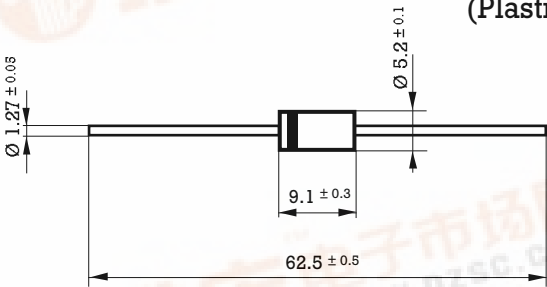


3 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

Dimensions in mm. DO-201AD (Plastic)  Mounting instructions 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 3 mm. to the body.	Voltage 50 to 600 V. Current 3 A at 55 °C. HYPERECTIFIER®
	• 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

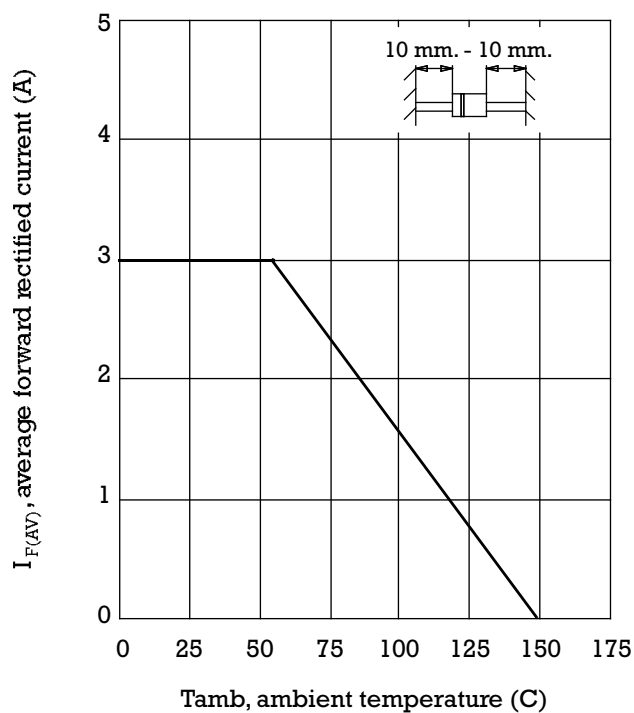
		EGP30A	EGP30B	EGP30D	EGP30F	EGP30G	EGP30J
V _{RRM}	Peak Recurrent reverse voltage (V)	50	100	200	300	400	600
V _{RMS}	Maximum RMS voltage	35	70	140	210	280	420
V _{DC}	Maximum DC blocking voltage	50	100	200	300	400	600
I _{F(AV)}	Forward current at Tamb = 55 °C	3 A					
I _{FRM}	Recurrent peak forward current	30 A					
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A					
t _{rr}	Max. reverse recovery time from I _F = 0.5 A ; I _R = 1 A ; I _{RR} = 0.25 A	50 ns					
C _j	Typical Junction Capacitance at 1 MHz and reverse voltaqe of 4V _{DC}	90 pF			45 pF		
T _j	Operating temperature range	– 65 to + 150 °C					
T _{stg}	Storage temperature range	– 65 to + 150 °C					
E _{RSM}	Maximum non repetitive peak reverse avalanche energy. I _R = 1A ; T _j = 25 °C	20 mJ					

Electrical Characteristics at Tamb = 25 °C

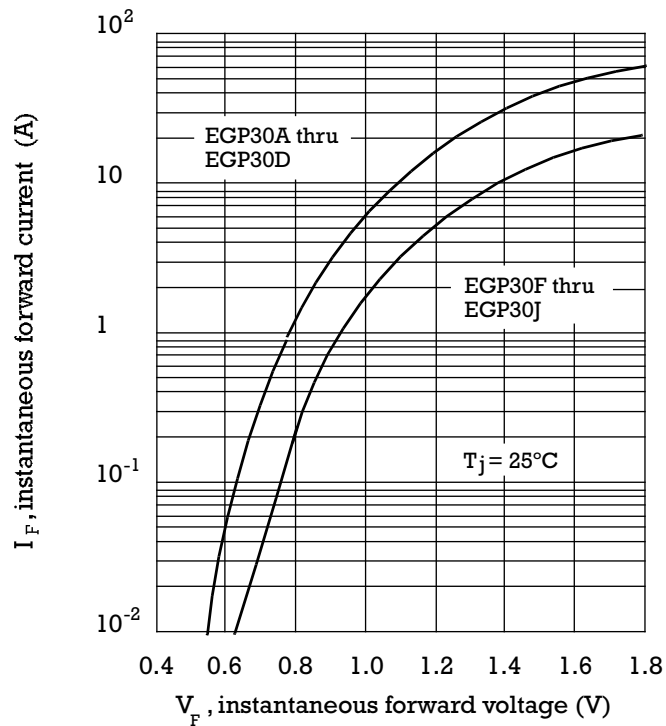
V_F	Max. forward voltage drop at $I_F = 3 A$	0.95 V	1.25 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 μA 50 μA	
$R_{th(j-a)}$	Max. thermal resistance (l = 10 mm.)	30 °C/W	

Rating And Characteristic Curves

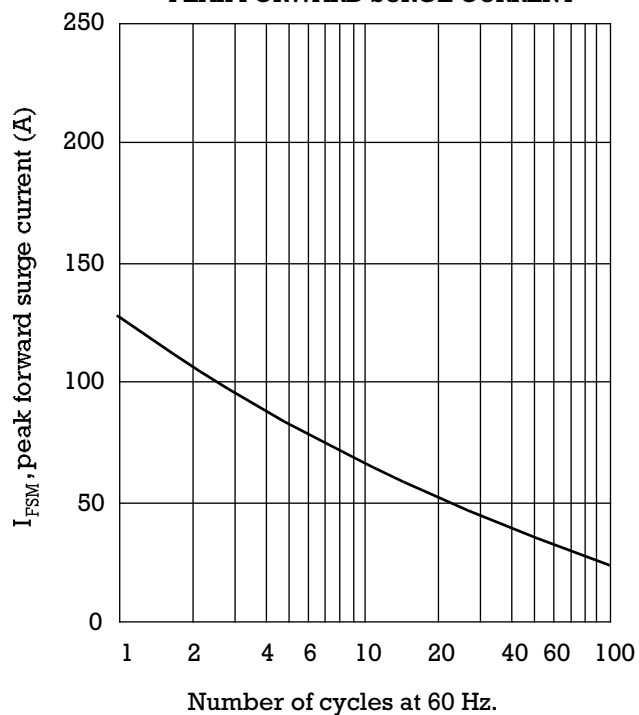
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

