

3 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

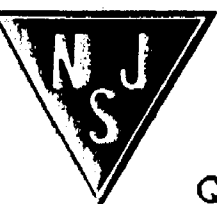
<p>Dimensions in mm.</p> <p style="text-align: right;">DO-201AD (Plastic)</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 3 mm. to the body. 	<p>Voltage 50 to 600 V.</p> <p>Current 3 A at 55 °C.</p> <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
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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 $T_{amb} = 55\text{ °C}$	3 A					
I_{FRM}	Recurrent peak forward current	30 A					
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A					
t_{rr}	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	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. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	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 mm.)	30 °C/W	



Rating And Characteristic Curves

