

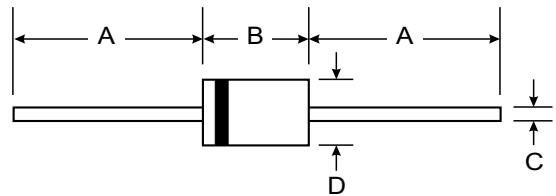
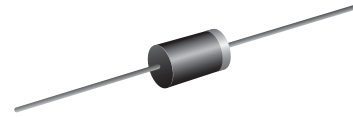
VOLTAGE RANGE: 50 - 1000V
CURRENT: 3.0 A

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	EGP 30A	EGP 30B	EGP 30D	EGP 30F	EGP 30G	EGP 30J	EGP 30K	EGP 30M	Unit		
Peak Repetitive Reverse Voltage	V_{RRM}									V		
Working Peak Reverse Voltage	V_{RWM}	50	100	200	300	400	600	800	1000			
DC Blocking Voltage	V_R											
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	420	560	700	V		
Average Rectified Output Current (Note 1)	I_O	3.0								A		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125					115				A	
Forward Voltage @ $I_F = 3.0A$	V_{FM}	1.0				1.3	1.7				V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_{RM}						5.0	120				μA
Reverse Recovery Time (Note 2)	t_{rr}	50					75				nS	
Typical Junction Capacitance (Note 3)	C_j	75								pF		
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$ $R_{\theta JL}$						20	8				$^\circ\text{C} / \text{W}$
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ\text{C}$		

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. See figure 5.
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES EGP30A THRU EGP30M

