semiconductors :: product :: General Purpose Rectifiers

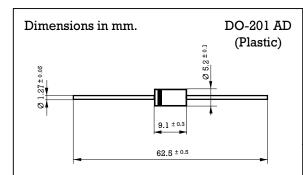
# **Product:** General Purpose Rectifiers

Product	Family	I <sub>F(AV)</sub> (A)	I <sub>FSM</sub> (A)	V <sub>RRM</sub> (V)	$V_F(V)$	OUTLINE
GP30G	GP30	3.0	125	400	1.1	DO201-AD





# 3 Amp. Glass Passivated Junction Rectifier



# Voltage Current 50 to 1200 V. 3.0 A. at 55 °C. HYPERECTIFIER

# 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.

# • 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

		GP30A	GP30B	GP30D	GP30G	GP30J	GP30K	GP30M	GP30Q
V <sub>RRM</sub>	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	1200
I <sub>F(AV)</sub>	Forward current at Tamb = 55 °C				(	3 A			
$I_{FRM}$	Recurrent peak forward current				3	0 A			
I <sub>FSM</sub>	8.3 ms. peak forward surge current (Jedec Method)				12	25 A			
$T_{j}$	Operating temperature range			-	- 65 to	+ 175	5°C		
$T_{\rm stg}$	Storage temperature range			-	- 65 to	+ 175	S°C		
E <sub>RSM</sub>	Maximum non repetitive peak reverse avalanche energy. $I_R = 1 \text{A} \; ; \; T_J = 25  ^{\circ}\text{C}$				2	0 mJ			

# Electrical Characteristics at Tamb = 25 °C

$V_{\scriptscriptstyle F}$	Max. forward voltage drop at $I_{\scriptscriptstyle F}=3\mathrm{A}$	1.1 V
$I_R$	Max. reverse current at V <sub>RRM</sub> at 25 °C at 150 °C	5 μ A 300 μ A
$R_{\text{thj-a}}$	Thermal resistance ( $I = 10 \text{ mm.}$ ) Max. Typ.	30 °C/W 15 °C/W