



SYNSEMI SEMICONDUCTOR

# 1SG1885, 1SG1887, 1SG1888

1.2 Amps. General Purpose Plastic Rectifiers  
Voltage Range 100 to 600 Volts Forward Current 1.2 Amperes

## Features

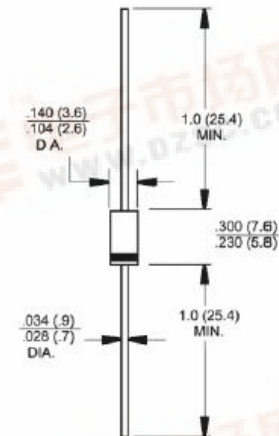
- ◆ Low cost
- ◆ Low leakage
- ◆ Low forward voltage drop
- ◆ High current capability



DO-204AC (DO-15)

## Mechanical Data

- ◆ Case : JEDEC DO-204AC (DO-15) molded plastic
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Lead: MIL-STD-202E method 208C guaranteed
- ◆ Mounting position: Any
- ◆ Weight: 0.014 ounce, 0.39 gram



Dimensions in inches and (millimeters)

## Maximum Ratings

( $T_a=25^\circ\text{C}$ )

Characteristics	Symbols	Rated	Units
Repetitive peak reverse voltage	$V_{RRM}$	100 400 600	Volts
Average forward current ( $T_s=60^\circ\text{C}$ )	$I_{F(AV)}$	1.2	Amps
Peak one cycle surge forward current (Non repetitive)	$I_{FSM}$	100 (50Hz) 110 (60Hz)	Amps
Junction temperature	$T_j$	-40 to +150	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-40 to +150	$^\circ\text{C}$

## Electrical Characteristics

( $T_a=25^\circ\text{C}$ )

Characteristics	Symbols	Test condition	Min.	Typ.	Max.	Units
Peak forward voltage	$V_{FM}$	$I_{FM}=5\text{A}$	-	-	1.0	Volt
Repetitive peak reverse current	$I_{RRM}$	$V_{RRM}=\text{Rated}$	-	-	10	$\mu\text{A}$
Thermal resistance (junction to ambient)	$R_{\theta(j-a)}$	DC	-	-	100	$^\circ\text{C/W}$

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## RATINGS AND CHARACTERISTIC CURVES

