



SYNSEMI SEMICONDUCTOR

1SG1885, 1SG1887, 1SG1888

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

Features

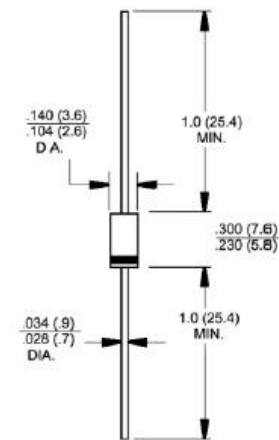
- ◆ Low cost
- ◆ Low leakage
- ◆ Low forward voltage drop
- ◆ High current capability



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	Ratings	Units
Repetitive peak reverse voltage	1SG1885 1SG1887 1SG1888	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}	$I_{FM} = 5A$	-	-	1.0	Volt
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	-	-	10	μA
Thermal resistance (junction to ambient)	$R_{\theta(j-a)}$	DC	-	-	100	$^\circ\text{C/W}$

1SG1885, 1SG1887, 1SG1888

RATINGS AND CHARACTERISTIC CURVES

