

## Standard Recovery Diode, 35A

### Features

- Glass passivated die
- Low forward voltage drop
- High surge capability
- Low leakage current
- Normal and Reverse polarity
- Metric and UNF threads available



DO-203AB (DO-5)

Maximum Ratings ( $T_J = 25^\circ\text{C}$ , unless otherwise noted)							
Parameter	Test Conditions	Symbol	1N1187(R)	1N1188(R)	1N1189(R)	1N1190(R)	Units
Repetitive peak reverse voltage		$V_{RRM}$	300	400	500	600	V
RMS reverse voltage		$V_{RMS}$	210	280	350	420	V
DC blocking voltage		$V_{DC}$	300	400	500	600	V
Continuous forward current	$T_C \leq 140^\circ\text{C}$	$I_{F(AV)}$	35	35	35	35	A
Surge non-repetitive forward current, half-sine wave	$T_C = 25^\circ\text{C}$	$I_{FSM}$	595	595	595	595	A
Maximum peak forward voltage	$I_F = 35\text{ A}, T_J = 25^\circ\text{C}$	$V_F$	1.2	1.2	1.2	1.2	V
Reverse current	$T_J = 25^\circ\text{C}$	$I_R$	10	10	10	10	$\mu\text{A}$
	$T_J = 140^\circ\text{C}$		10	10	10	10	mA

Thermal & Mechanical Specifications ( $T_J = 25^\circ\text{C}$ , unless otherwise noted)						
Parameters	Symbol	1N1187(R)	1N1188(R)	1N1189(R)	1N1190(R)	Units
Thermal resistance, junction to case	$R_{th(jc)}$	0.25	0.25	0.25	0.25	$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$	-55 to 160	-55 to 160	-55 to 160	-55 to 160	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to 160	-55 to 160	-55 to 160	-55 to 160	$^\circ\text{C}$
Mounting torque, non-lubricated threads, tightening on nut	F	3.4 $\pm$ 10%				Nm
Approximate weight	W	16				g

## Package Outline

## Dimensions for DO-203AB (DO-5) (in millimeters)

