

Standard Recovery Diode, 40A

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	1N1187A(R)	1N1188A(R)	1N1189A(R)	1N1190A(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	$T_C \leq 150^\circ\text{C}$	$I_{F(AV)}$	40	40	40	40	A
Surge non-repetitive forward current, half-sine wave	$T_C = 25^\circ\text{C}$	I_{FSM}	800	800	800	800	A
Maximum peak forward voltage	$I_F = 40\text{ A}, T_J = 25^\circ\text{C}$	V_F	1.1	1.1	1.1	1.1	V
Reverse current	$T_J = 25^\circ\text{C}$	I_R	10	10	10	10	μA
	$T_J = 140^\circ\text{C}$		15	15	15	15	mA

Thermal & Mechanical Specifications ($T_J = 25^\circ\text{C}$, unless otherwise noted)						
Parameters	Symbol	1N1187A(R)	1N1188A(R)	1N1189A(R)	1N1190A(R)	Units
Thermal resistance, junction to case	$R_{th(jc)}$	1.25	1.25	1.25	1.25	$^\circ\text{C}/\text{W}$
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)

