1N1190A is a Motorola Preferred Device

MEDIUM-CURRENT RECTIFIERS

... for applications requiring low forward voltage drop and rugged construction.

- · High Surge Handling Ability
- Rugged Construction
- Reverse Polarity Available; Eliminates Need for Insulating Hardware in Many Cases
- Hermetically Sealed

40-AMP RECTIFIERS

SILICON DIFFUSED-JUNCTION



CASE 42A-01 DO-203AB METAL

*MAXIMUM RATINGS

Rating	Symbol	1N1183A	1N1184A	1N1186A	1N1188A	1N1190A	Unit
Peak Repetitive Reverse Voltage	VRRM VRWM VR	50	100	200	400	600	Volts
Average Half-Wave Rectified Forward Current With Resistive Load (a TA = 150°C	lo	40	40	40	40	40	Amp
Peak One Cycle Surge Current (60 Hz and 150°C Case Temperature)	IFSM	800	800	800	800	800	Amp
Operating Junction Temperature	TJ	65 to + 200				°C	
Storage Temperature	Teta	- 65 to + 200				°C	

*ELECTRICAL CHARACTERISTICS (All Types) at 25°C Case Temperature

Characteristic	Symbol	Value	Unit Volts	
Maximum Forward Voltage at 100 Amp DC Forward Current	V _F	1 1		
Maximum Reverse Current at Rated DC Reverse Voltage	^I R	50	mAdc	

THERMAL CHARACTERISTICS

Characteristic	Symbol	Typical	Unit	
Thermal Resistance, Junction to Case	$R_{\theta JC}$	10	°C/W	

^{*}Indicates JEDEC registered data

MECHANICAL CHARACTERISTICS

CASE: Welded, hermetically sealed construction FINISH: All external surfaces corrosion-resistant and the terminal lead is readily solderable

WEIGHT: 25 grams (approx)

POLARITY: Cathode connected to case (reverse polarity available denoted by Suffix R,

i.e · 1N1183RA

MOUNTING POSITION: Any
MOUNTING TORQUE: 25 in-lb max