INTERNATIONAL RECTIFIER

1N3085, 1N3111, 1N5162SERIES 150 Amp Avg Silicon Rectifier Diodes

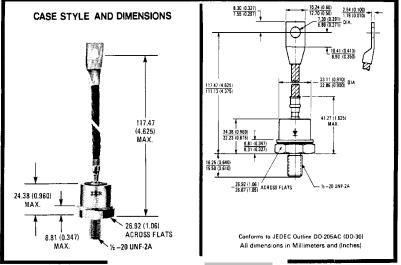
Major Ratings and Characteristics

		1N3111	1N3085	1N5162	Units
IF(AV)		150*			Α
@ Max. T _C		150*			°C
I _{FSM} @ 50 Hz		2,850			A
	@ 60 Hz		3,000*		~
1 ² 1	@ 50 Hz		41,000		<u>م</u> 2 و
	@ 60 Hz		37,500		·
l²√ĩ		580,000			$A^2\!\sqrt{s}$
VRAN	Range	50	100 - 1000	1200	v

*JEDEC registered value

Description and Features

- Alloy junction for soft recovery characteristics
- Rugged device for duty cycle applications
- Reverse voltage ratings up to 1200 volts
- Applications include power rectification in extreme environmental conditions



Downloaded From Oneyac.com



VOLTAGE RATINGS

D Part Number	VRRM Max. Repetitive Peak Reverse Voltage (V) T _C = -65°C to 200°C	Max. Direct Reverse Voltage (V) $T_{C} = -65^{\circ} C \text{ to } 200^{\circ} C$	IRIAV) Max. Average Reverse Current at Max. Rated IFIAV) and VRIM- TC = 150°C 1 Phase Operation (mA)
1N3111	50*	40*	25*
1N3085	100*	B0*	25*
1N3086	200*	160*	17*
1N3087	. 300*	240*	17*
1N3088	400*	320*	17*
1N3089	500*	400*	17*
1N3090	600*	480*	17*
1N3091	800*	640*	16*
1N3092	1000*	800*	12*
1N5162	1200*	960*	10*

ELECTRICAL SPECIFICATIONS

		1N3111, 1N3085, 1N5162 Series	Units	Conditions
IF(AV)	Max. average forward current	150*	A	180° sinusoidal conduction Max. T _C = 150°C
¹ FSM	Max, peak one-cycle non-repetitive surge current	2,850	A	Half cycle 50 Hz sine wave or 6 ms rectangular pulse Following any rated load condition and with rated
		3,000*		Half cycle 60 Hz sine wave VRRM applied
		3,400		Half cycle 50 Hz sine wave or 5 ms rectangular pulse Following any rated load condition and with V RBA
		3,550		Half cycle 60 Hz sine wave applied following surge = or 5 ms rectangular pulse
l ² t	Max. I ² t for fusing Max. I ² t for individual device fusing	41,000	- A ² s	t = 10 ms With rated V _{RRM} applied following t = 8.3 ms surge, initial T = 200°C.
		37,500		
		58,000		t = 10 ms t = 8.3 ms initial T = 200°C
		53,000		
l²√ī	Max. I ² \sqrt{t} for individual () device fusing	580,000	A²√s	$t = 0.1$ to 10 ms, $V_{RRM} = 0$ following surge,
VFM	Max. peak forward voltage	1.2*	v	IF(AV) = 150 A (471 A peak), T _C = 150°C

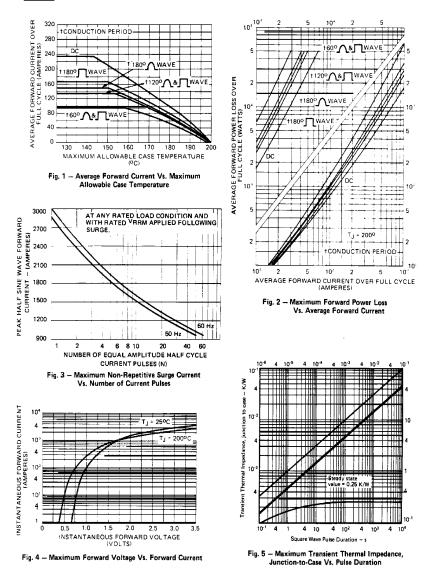
THERMAL-MECHANICAL SPECIFICATIONS

۲ _C	Max. operating case temperature range		-65° to 200°	°C	
Tstg	Max. storage tempera range	ture	-65* to 200*	°C	
R HUC	Max. internal therma junction-to-case	resistance,	0.25*	deg C/W	DC operation
RthCS	Thermal resistance, c	ase-to-sink	0.10	deg C/W	Mounting surface flat, smooth, and greased
т	Mounting torque	Min.	14.1 (125)	Nm (lbf-in)	
		Max.	17.0 (150)	Nill (101-11)	
wt	Approximate weight		91 (3.2)	g (oz)	
•	Case style		DO-205AC (DO-30)		JEDEC

D Basic part number indicates cathode-to-case. For anode-to-case, add "R" to part number, e.g. 1N3086R.

(1) $I^2 t$ for time $t_x = I^2 \sqrt{t} \cdot \sqrt{t_x}$ *JEDEC registered values.

IOR INTERNATIONAL RECTIFIER



Downloaded From Oneyac.com

单击下面可查看定价,库存,交付和生命周期等信息

>>Vishay(威世)