

Ordering Information





Maximum Ratings (Note 4)

Characteristic	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Average Rectified Forward Current (Rated V_R , T_C = +141°C)	I _{F(AV)}	3	А
Non Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Half Wave, Single Phase, 60Hz)	I _{FSM}	80	А
Operating Junction Temperature Range (Note 5)	TJ	-65 to +150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C
Voltage Rate of Change (Rated V_R)	dv/dt	10000	V/µs
ESD (Machine Model = C)	_	400	V
ESD (Human Body Model = 3B)	_	8000	V

4. Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "Recommended Operating Conditions" is not implied. Notes: Exposure to "Absolute Maximum Ratings" for extended periods may affect device reliability. 5. The heat generated must be less than the thermal conductivity from Junction to Ambient: $dP_D/dT_J < 1/\theta_{JA}$.

Thermal Characteristics

Characteristic	Symbol	Rat	ing	Unit
Thermal Resistance (Junction to Lead) (Note 6)	R _{ēJL}	DO-214AC	20	
Thermal Resistance (Junction to Ambient) (Note 6)	R _{0JA}	DO-214AC	70	°C/W

6. Device mounted on heat sink, with minimum recommended pad layout per http://www.diodes.com/package-outlines.html. Note:

Electrical Characteristics

Characteristic	Symbol	Rating	Unit	Test Condition
	V _{F (MAX)}	0.85	V	I _F = 3A, T _C = +25°C
Maximum Instantaneous Forward Voltage Drop (Note 7)		0.7		I _F = 3A, T _C = +125°C
Maximum Instantaneous Reverse Current (Note 7)	I	0.5	mA	Rated DC Voltage, T_C = +25°C
	I _{R (MAX)}	2.0		Rated DC Voltage, T _C = +125°C

7. Short duration pulse test used to minimize self-heating effect, Pulse Test: Pulse Width = 300µs, Duty Cycle ≤ 2.0%. Note:







Package Outline Dimensions (All dimensions in mm(inch).)

(1) Package Type: DO-214AC





Suggested Pad Layout

(1) Package Type: DO-214AC





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