Power Diode

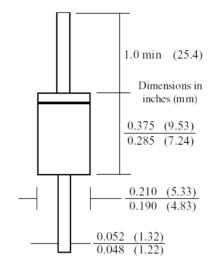


1A to 3A, Standard Axial Rectifiers



Features:

- 3.0 ampere operation at $T_A = 75^{\circ}C$ with no thermal runaway.
- High current capability.
- Low leakage.



Ampere General Purpose Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
I _O	Average Rectified Current 0.375" lead length at T _A = 75°C	3.0		
İf (surge)	Peak Forward Surge Current 8.3ms single half-sine-wave Superimposed on rated load (JEDEC method)	200	A	
P _D	Total Device Dissipation Derate above 25°C	6.25 50	W mW/°C	
RθJA	Thermal Resistance, Junction to Ambient	20	°C/W	
T _{stg}	Storage Temperature Range	-55 to +150	°C	
T _J	Operating Junction Temperature	-55 10 +150	C	

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics

 $T_A = 25$ °C unless otherwise noted

Parameter	Device							Units
Farameter	5400	5401	5402	5404	5406	5407	5408	Units
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	
Maximum RMS Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	
Maximum Reverse Current at rated $V_R T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		5.0 500						μА
Maximum Forward Voltage at 3.0A	1.2						V	
Maximum Full Load Reverse Current, Full Cycle T _A = 105°C	0.5							mA
Typical Junction Capacitance $V_R = 4.0V$, $f = 1.0MHz$				30				pF

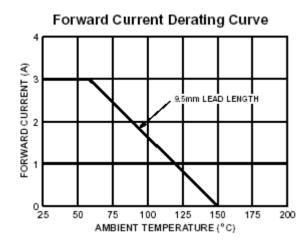


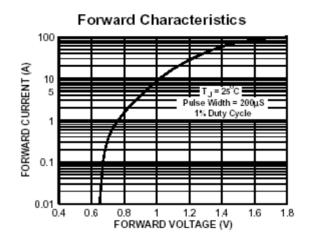
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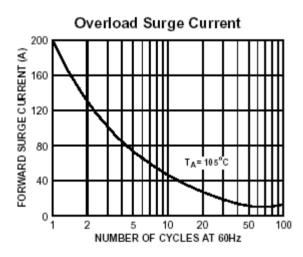
Power Diode

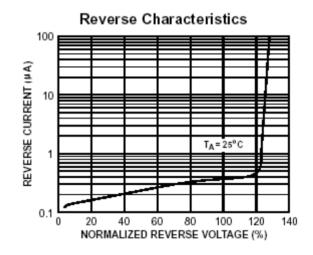


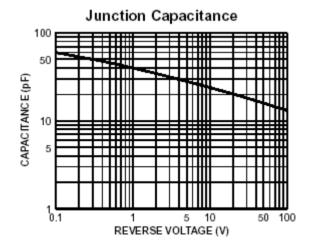
Typical Characteristics













Power Diode



Specifications

V _{RRM} maximum Voltage	l _f (av) A	I _{fsm} A	Plastic Package	Part Number
50				1N5400
100			1N5401	
200			1N5402	
400	3	200	DO-201AD	1N5404
600				1N5406
800	1			1N5407
1000				1N5408

Power Diode



Notes:

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