General Purpose Rectifiers

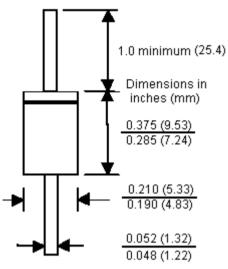




Features:

- 3.0 ampere operation at T_A = 75°C with no thermal runaway.
- High current capability.
- Low leakage.

DO-201AD



Colour Band Denotes Cathode

Dimensions : Millimetres (Inches)

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Parameter	Symbol	Value	Units	
Average Rectified Current 0.375 Inches Lead Length at T _A = 75°C	Io	3.0		
Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)	i _f (surge)	200	A	
Total Device Dissipation Derate above 25°C	P _D	6.25 50	W mW/°C	
Thermal Resistance, Junction to Ambient	$R_{ hetaJA}$	20	°C/W	
Storage Temperature Range	T _{stg}	-55 to +150	°C	
Operating Junction Temperature	T _J	-55 to +150		

^{*}These Ratings are Limiting Values above Which the Serviceability of Any Semiconductor Device may be Impaired.

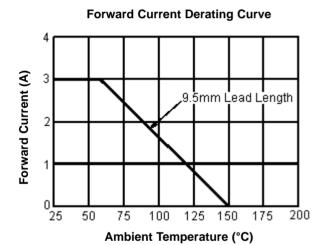
General Purpose Rectifiers



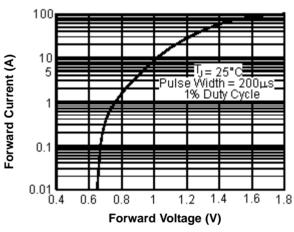
Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device				Unit	
	5401	5402	5404	5406	5408	
Peak Repetitive Reverse Voltage	100	200	400	600	1000	
Maximum RMS Voltage	70	140	280	420	700	V
DC Reverse Voltage (Rated V _R)	100	200	400	600	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		

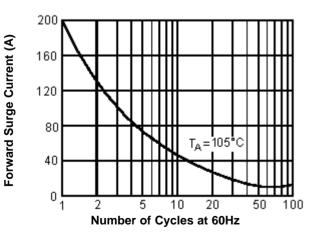
Typical Characteristics



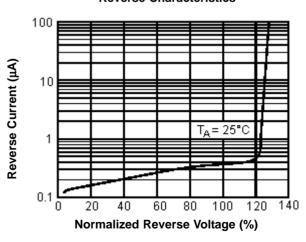








Reverse Characteristics

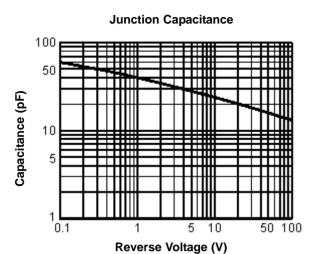


http://www.farnell.com http://www.newark.com http://www.cpc.co.uk



General Purpose Rectifiers





Part Number Table

Description	Part Number
Diode, 3A, 100V Reel 1250	1N5401 R0
Diode, 3A, 400V Reel 1250	1N5404 R0
Diode, 3A, 600V Reel 1250	1N5406 R0
Diode, 3A, 1000V Reel 1250	1N5408 R0
Diode, Standard, 3A, 100V	1N5401
Diode, Standard, 3A, 200V	1N5402
Diode, Standard, 3A, 400V	1N5404
Diode, Standard, 3A, 600V	1N5406
Diode, Standard, 3A, 1000V	1N5408

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