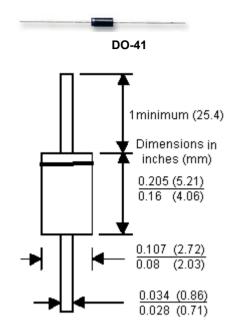
General Purpose Rectifiers





Features:

- · Low forward voltage drop
- · High current capability

Colour Band Denotes Cathode

Dimensions: Inches (Millimetres)

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	I _O	1	A	
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)	i _f (surge)	30		
Total Device Dissipation Derate above 25°C	P _D	2.5 20	W mW/°C	
Thermal Resistance, Junction to Ambient	$R_{ heta JA}$	50	°C/W	
Storage Temperature Range	T _{stg}	-55 to +175	°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.

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device				Unit	
	4001	4002	4003	4005	4006	Onit
Peak Repetitive Reverse Voltage	50	100	200	600	1,000	
Maximum RMS Voltage	35	70	140	420	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	600	1,000	
Maximum Reverse Current at Rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5 500				μА	
Maximum Forward Voltage at 1 A	1.1				V	
Maximum Full Load Reverse Current, Full Cycle T _A = 75°C	30			μΑ		
Typical Junction Capacitance V _R = 4 V, f = 1 MHz	15			pF		

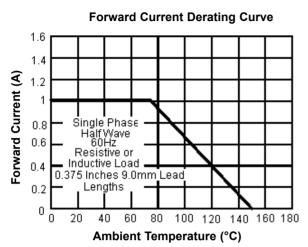
www.element14.com www.farnell.com www.newark.com

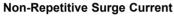


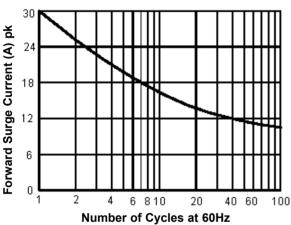
General Purpose Rectifiers



Typical Characteristics

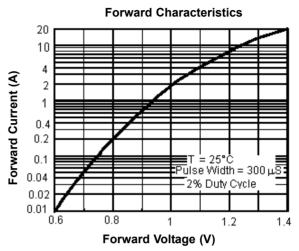




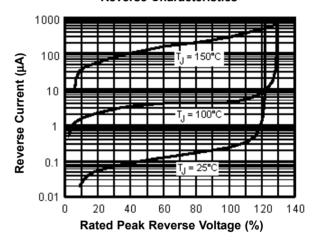


Part Number Table

Description	Part Number
Diode, 1 A, 50V Reel 5K	1N4001 R0
Diode, 1 A, 100 V Reel 5K	1N4002 R0
Diode, 1 A, 200 V Reel 5K	1N4003 R0
Diode, 1 A, 800 V Reel 5K	1N4006 R0
Diode, Standard, 1 A, 50 V	1N4001
Diode, Standard, 1 A, 100 V	1N4002
Diode, Standard, 1 A, 200 V	1N4003
Diode, Standard, 1 A, 600 V	1N4005
Diode, Standard, 1 A, 800 V	1N4006



Reverse Characteristics



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