Standard Diodes





Features

· Low forward voltage drop

· High current capability

· High reliability

· High surge current capability

Mechanical Data

Cases : Moulded plastic

Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity : Colour band denotes cathode end

High temperature soldering guaranteed : 260°C/10 seconds/0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension

Weight : 0.4g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	Symbol	1N5391+	1N5392+	1N5399+	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	1,000	
Maximum RMS Voltage	V _{RMS}	35	70	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	1,000	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T _A = 75°C	I _(AV)	1.5			А
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50			
Maximum Instantaneous Forward Voltage at 1.5A	V _F	1.1 10		V	
Maximum DC Reverse Current at $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage at $T_A = 100^{\circ}C$	I _R	5 50			μA μA
Max. Full Load Reverse Current, Full Cycle Average 0.375 inch (9.5mm) Lead Length at TA = 75°C	HT _{IR}	30		μΑ	
Typical Junction Capacitance (Note 1)	C _i	50		pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60		°C/W	
Operating Temperature Range	TJ	-65 to +150		°C	
Storage Temperature Range	T _{STG}	-03 (0 +150			

Note 1: Measured at 1MHz and Applied Reverse Voltage of 4V DC.

Note 2: Mount on Cu-Pad Size 10mm × 10mm on PCB.

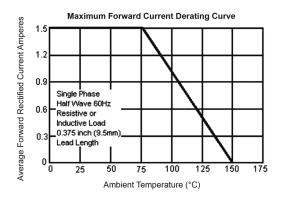
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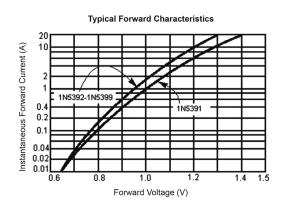


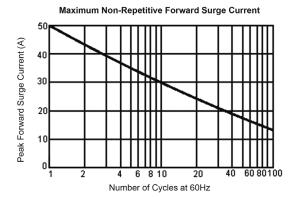
Standard Diodes

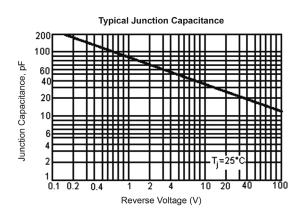


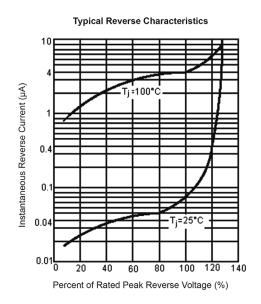
Ratings and Characteristic Curves











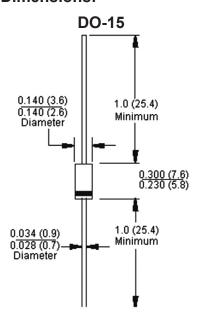
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Standard Diodes



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
Diode, Standard, 1.5A, 50V	1N5391+		
Diode, Standard, 1.5A, 100V	1N5392+		
Diode, Standard, 1.5A, 1,000V	1N5399+		

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