



Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

Cases	: Moulded plastic DO-41
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	: 0.34g

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%.

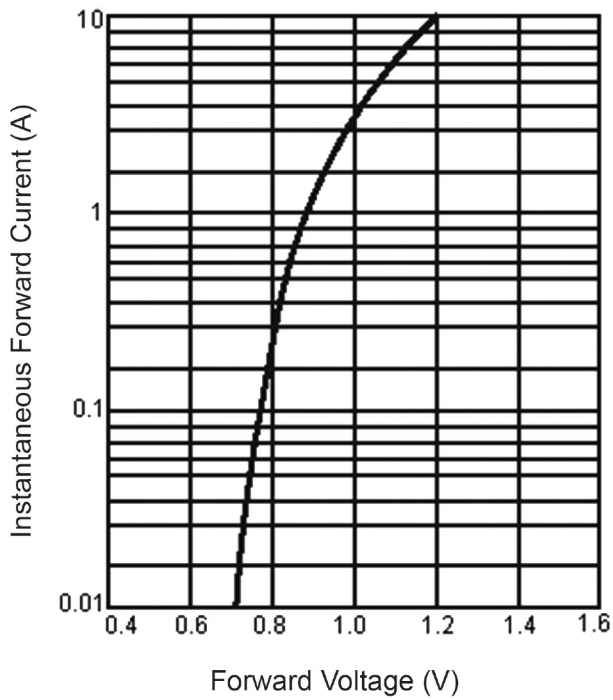
Type Number	Symbol	Value	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1,000	V
Maximum RMS Voltage	V_{RMS}	700	
Maximum DC Blocking Voltage	V_{DC}	1,000	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A = 60^\circ\text{C}$	$I_{(AV)}$	1.5	A
Peak Forward Surge Current, 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	V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	I_R	5 100	μA μA
Typical Junction Capacitance (Note 1)	C_J	15	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	65	°C/W
Operating Temperature Range	T_J	-65 to +175	°C
Storage Temperature Range	T_{STG}		

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

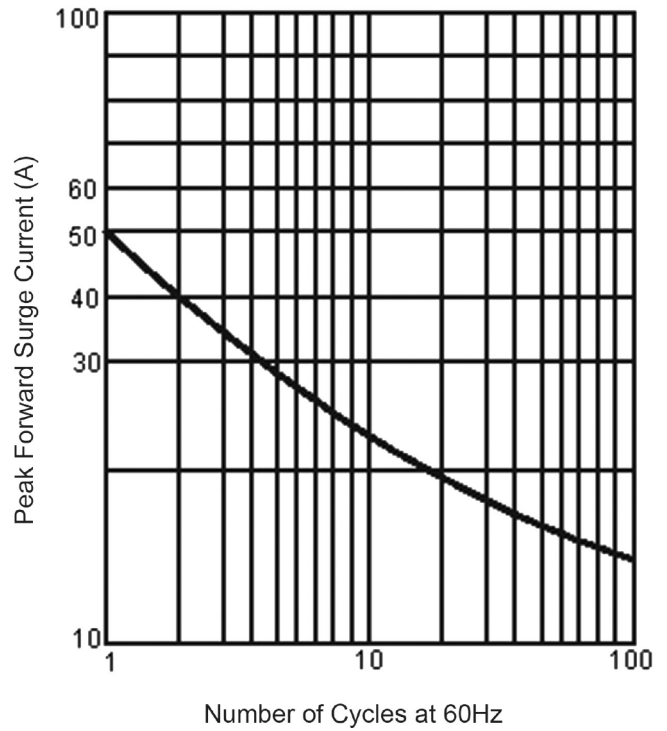
Note 2: Mount on Cu-Pad Size 5mm × 5mm on PCB.

Ratings and Characteristic Curves

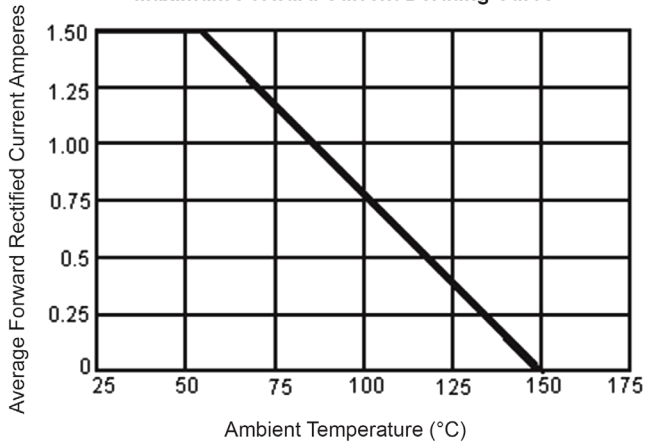
Typical Forward Characteristics



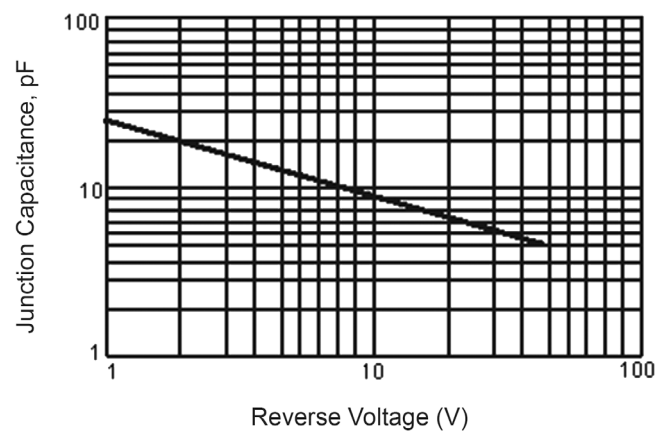
Maximum Non-Repetitive Forward Surge Current



Maximum Forward Current Derating Curve

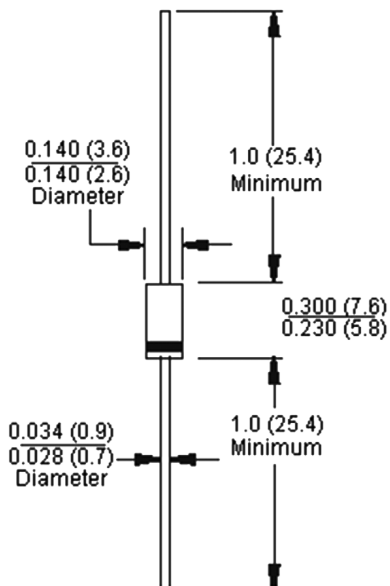


Typical Junction Capacitance



Dimensions:

DO-15



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Standard Diode, 1.5A, 1,000V	1N5399G+

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