### **Standard Recovery Diode**

## **multicomp** PRO

RoHS

**Compliant** 



#### Features:

- High efficiency, Low VF
- High current capability •
- High reliability •
- High surge current capability •
- Low power loss

### **Mechanical Data**

Case	: Moulded plastic
Lead	: Pure tin plated, lead free, solde
Polarity	: Colour band denotes cathode e
High temperature soldering guaranteed	: 260°C / 10s / 0.375 Inches, (9.5
Weight	: 0.34 g

- erable per MIL-STD-202, Method 208 guaranteed
- end
- 5mm) lead lengths at 5 lbs, (2.3kg) tension

### Max. Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60 Hz, resistive or inductive load For capacitive load, derate current by 20%

Type Number	Symbol	Values	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	
Maximum RMS Voltage	Vrms	35	V
Maximum DC Blocking Voltage	VDC	50	
Maximum Average Forward Rectified Current 0.375 Inches (9.5mm) Lead Length at TA = 55°C	l(AV)	1	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	IFSM	30	- A
Maximum Instantaneous Forward Voltage at 1A	VF	1.2	V
Maximum Reverse Current at Rated VR T <sub>A</sub> = $25^{\circ}$ C T <sub>A</sub> = $125^{\circ}$ C	IR	5 150	μA
Maximum Reverse Recovery Time (Note 1)	Trr	200	nS
Typical Junction Capacitance (Note 2)	Сл	10	pF
Typical Thermal Resistance	Reja	65	°C/W
Operating Temperature Range	TJ	05 to 1450	°C
Storage Temperature Range	Тята	-65 to +150	°C

Notes : 1. Reverse Recovery Test Conditions: IF = 1.0A, VR = 30V, di/dt = 50A/µS, Irr = 10% IRM for Measurement of trr.

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

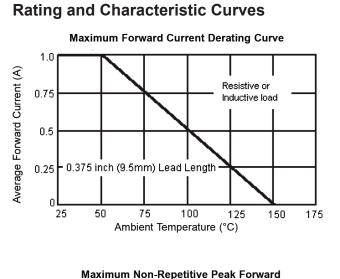
3. Mount on Cu-Pad Size 5mm × 5mm on PCB

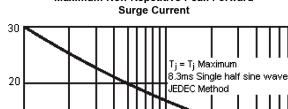
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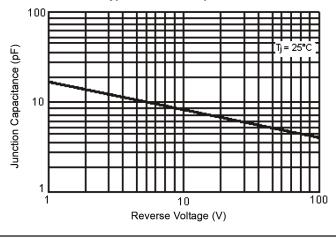
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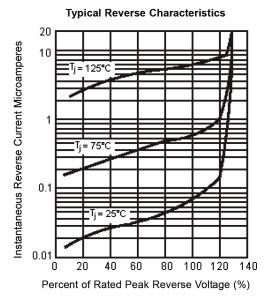


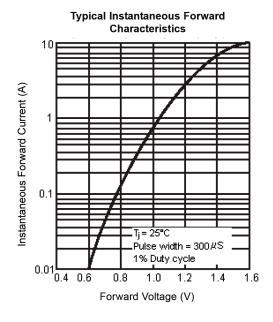
Peak Forward Surge Current (A) 10 0 10 100 1 Number of Cycles at 60Hz





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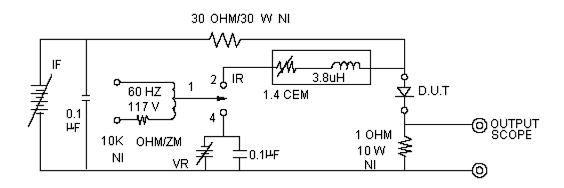




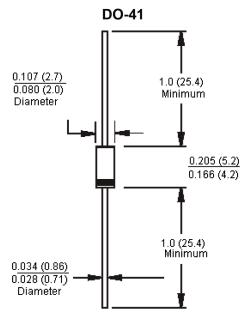
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#### 23/09/19 V1.0

### **Reverse Recovery Time Characteristic and Test Circuit Diagram**



### **Dimensions:**



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number	
Standard Recovery Diode, 50V, 1A	1N4933+	

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