

# 1N5391~1N5399

## GENERAL PURPOSE PLASTIC RECTIFIERS

**VOLTAGE** 50 to 1000 Volt **CURRENT** 1.5 Ampere

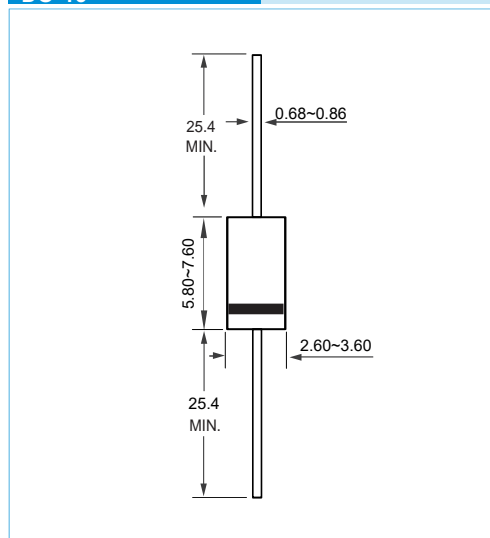
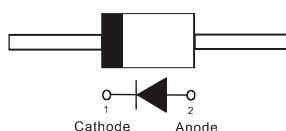
**DO-15** Unit:mm

### FEATURES

- Halogen free available upon request by adding suffix "-HF"
- Low Leakage Current
- High Current Capability
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Moisture Sensitivity Level 1

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	1N5391	1N5392	1N5393	1N5394	1N5395	1N5396	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Current)	$I_{F(AV)}$	1.5									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50									A
Maximum Forward Voltage at 1.5 A	$V_F$	1.1									V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0 100									$\mu A$
Typical Junction Capacitance	$C_J$	20									pF
Typical Thermal Resistance(Junction To Lead)	$R_{\theta JA}$	26									°C / W
Operating Junction Temperature Range	$T_J$	-55 to +150									°C
Storage Temperature Range	$T_{STG}$	-55 to +150									°C

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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## RATING AND CHARACTERISTIC CURVES

Figure 1  
Typical Forward Characteristics

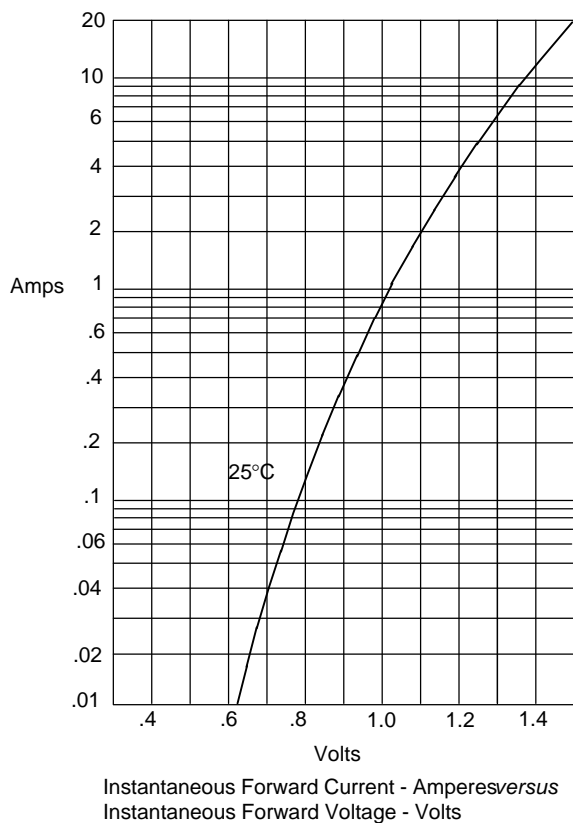


Figure 2  
Forward Derating Curve

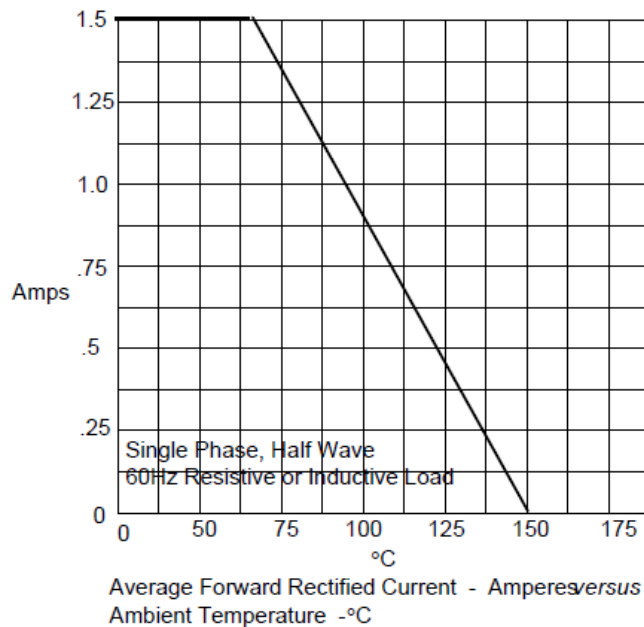


Figure 4  
Peak Forward Surge Current

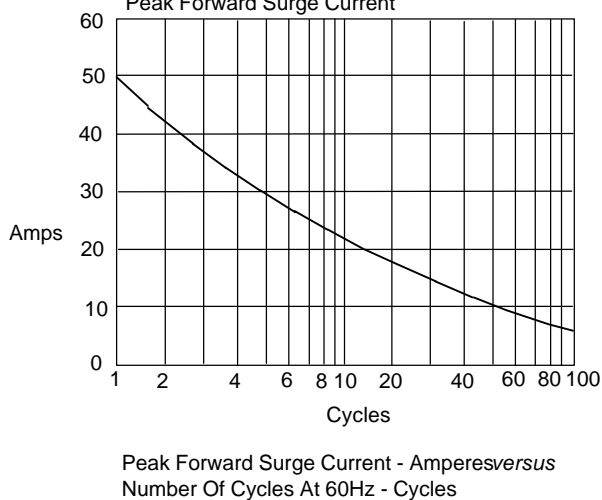
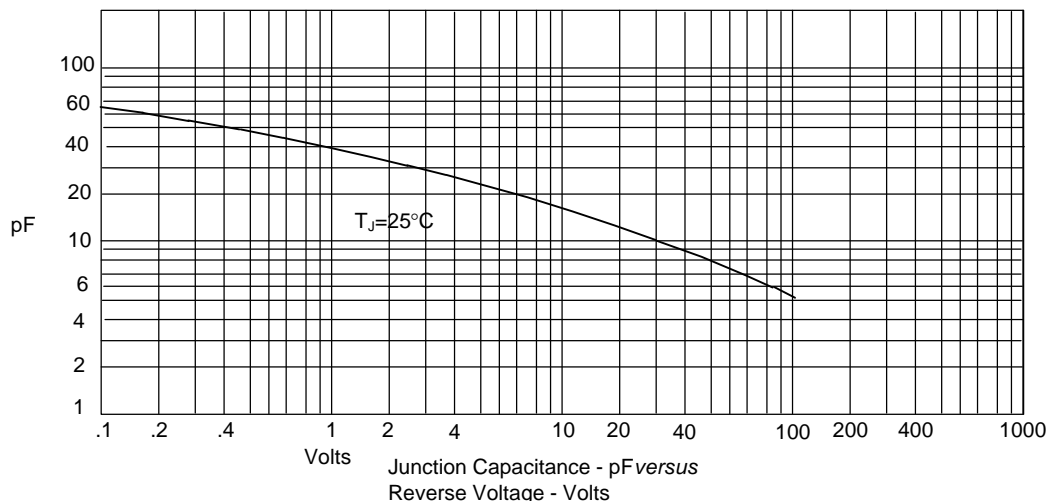


Figure 3  
Junction Capacitance



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### ORDER INFORMATION

#### • Packing information

1N5391~1N5399	Packing Quantity
Tape&Reel	13 Inch; 4kpcs/Reel
Ammo Packing	3kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box