







1.5 Amp. Glass Passivated Junction Rectifier

<p>DO-204AC (DO-15)</p> 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Voltage 50V to 1000 V</td> <td style="text-align: center;">Current 1.5 A at 70° C</td> </tr> <tr> <td colspan="2" style="text-align: center;">  </td> </tr> </table> <p>FEATURES</p> <ul style="list-style-type: none"> • Glass passivated chip junction • Hyperectifier structure for high reliability • Cavity-free glass-passivated junction • Low forward voltage drop • Low leakage current, typical I_R less than 0.1 μA • High forward surge capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC <div style="text-align: right;">   <p>RoHS COMPLIANT</p> </div> <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DO-204AC (DO-15) Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. <p>TYPICAL APPLICATIONS</p> <p>Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application</p>	Voltage 50V to 1000 V	Current 1.5 A at 70° C		
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Maximun Ratings and Electrical Characteristics at 25°C

		1N5391GP	1N5392GP	1N5393GP	1N5394GP	1N5395GP	1N5396GP	1N5397GP	1N5398GP	1N5399GP
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	300	400	500	600	800	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 70^\circ C$	1.5 A								
I_{FRM}	Recurrent Peak Forward Current	10 A								
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	50 A								
T_j	Operating Temperature Range	-65 to +175 °C								
T_{stg}	Storage Temperature Range	-65 to +175 °C								
E_{RSM}	Maximum non Repetitive Peak Reverse Avalanche energy. $I_R = 1 A; T_j = 25^\circ C$	20 mJ								

Electrical Characteristics at $T_{amb} = 25^\circ C$

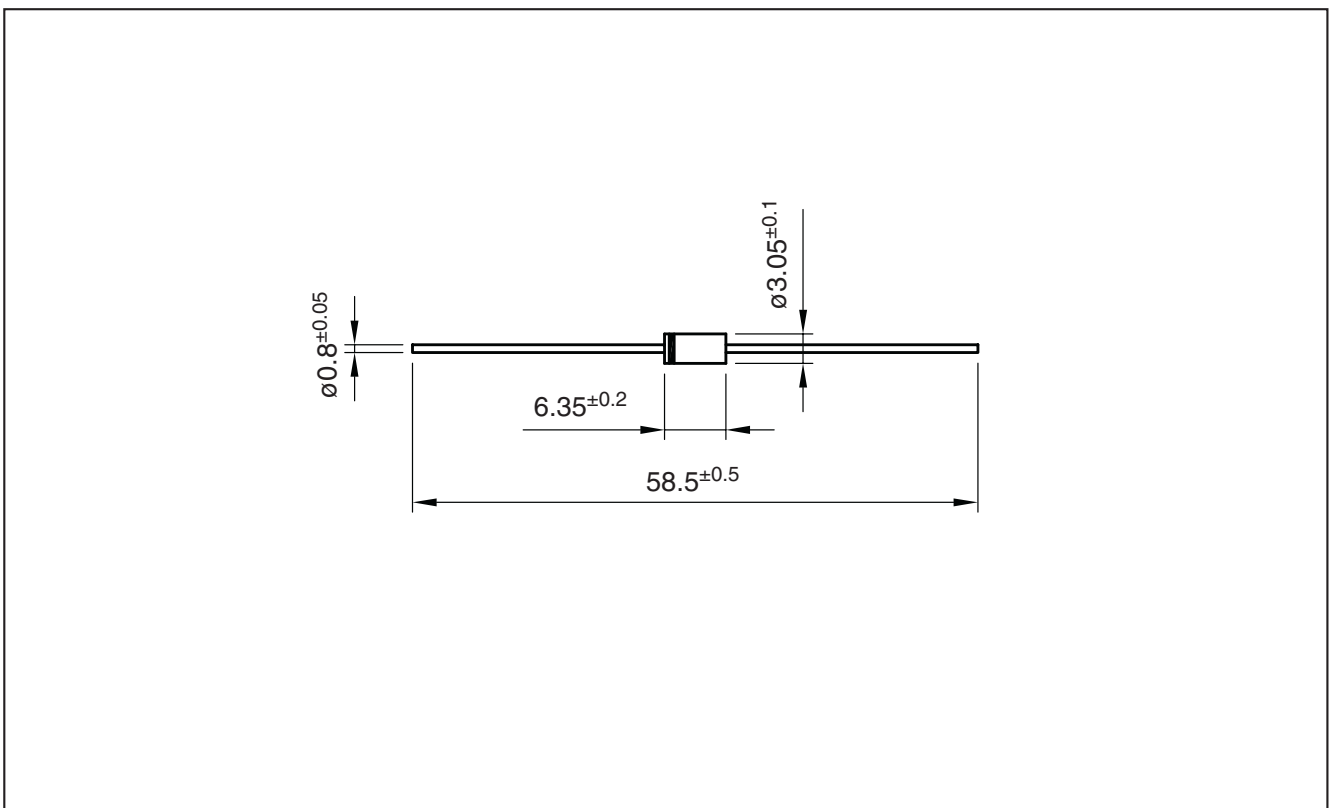
V_F	Maximum Forward Voltage Drop at $I_F = 1.5 A; T_a = 70^\circ C$	1.2 V
I_R	Maximun Reverse Current at V_{RRM} at 25 °C at 100 °C	5 μ A 300 μ A
t_{rr}	Typical reverse recovery time (0.5/1/0.25 A)	3 μ s
$R_{th(j-a)}$	Thermal Resistance (l = 10mm.) Max. Typ.	50 °C/W 30 °C/W

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Ordering information

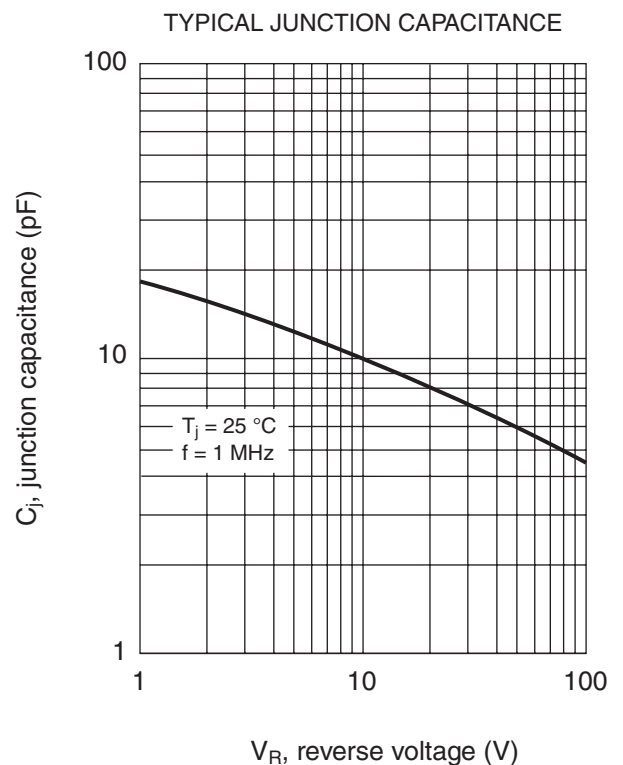
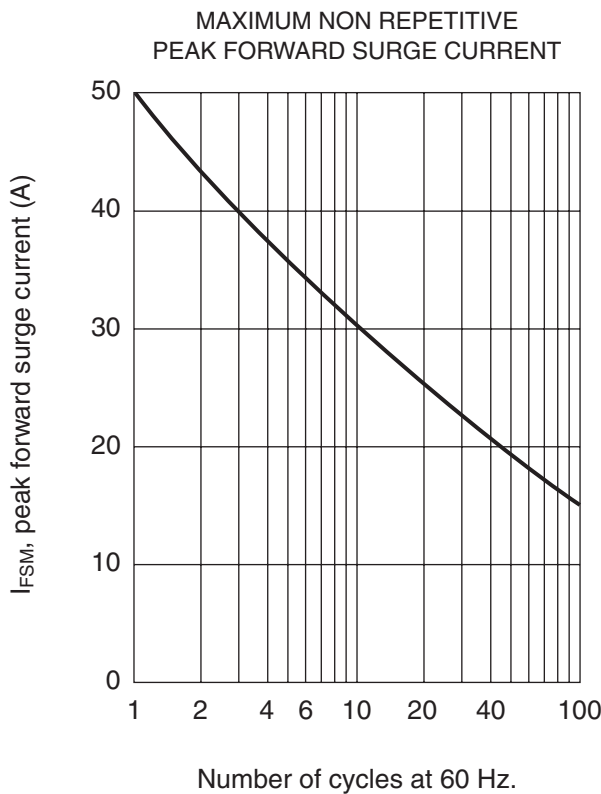
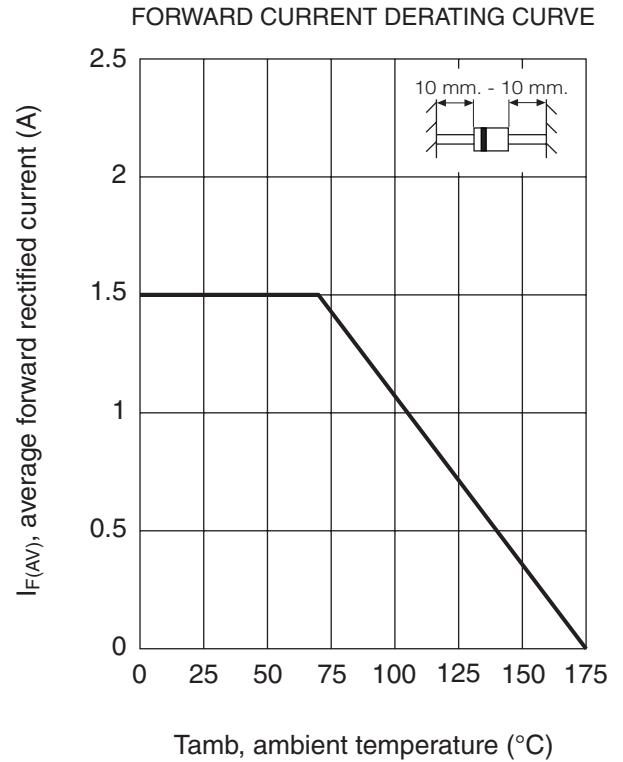
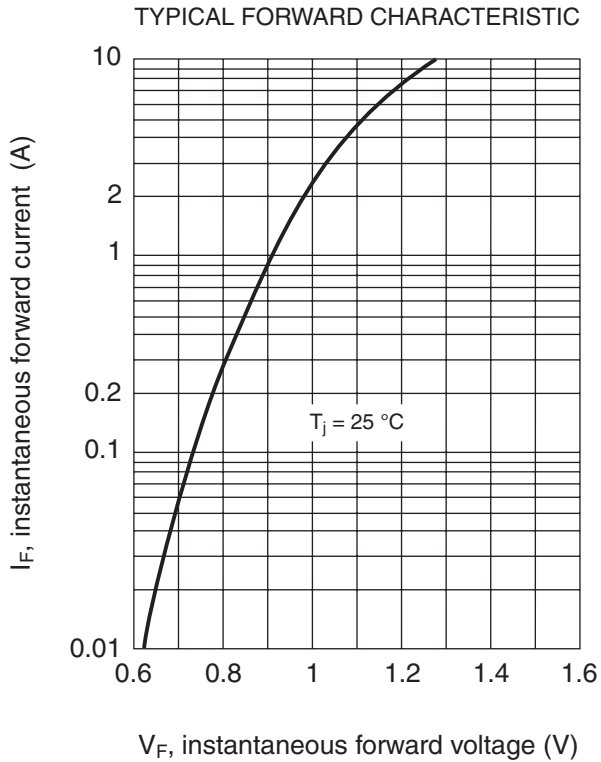
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1N5393GP AMP	AMP	AMMO BOX	4,000	0.378
1N5393GP TR	TR	14" diameter tape and reel	4,000	0.378

Package Outline Dimensions: (mm) DO-204AC (DO-15)



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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