




## 1.5 Amp. Glass Passivated Junction Rectifier

<p><b>DO-204AC (DO-15)</b></p> 	<p><b>Voltage</b> 50V to 1000 V</p>	<p><b>Current</b> 1.5 A at 70° C</p>	
			
	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>Glass passivated chip junction</li> <li>Hyperectifier structure for high reliability</li> <li>Cavity-free glass-passivated junction</li> <li>Low forward voltage drop</li> <li>Low leakage current, typical <math>I_R</math> less than 0.1 <math>\mu</math>A</li> <li>High forward surge capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> </ul>		
	<p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li><b>Case:</b> DO-204AC (DO-15) Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> Color band denotes cathode end</li> <li><b>Terminals:</b> 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.</li> </ul>		
<p><b>TYPICAL APPLICATIONS</b></p> <p>Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application</p>			

### Maximun Ratings and Electrical Characteristics at 25°C

		1NR 5391GP	1NR 5392GP	1NR 5393GP	1NR 5394GP	1NR 5395GP	1NR 5396GP	1NR 5397GP	1NR 5398GP	1NR 5399GP
$V_{RRM}$	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 $T_{amb} = 25^\circ C$

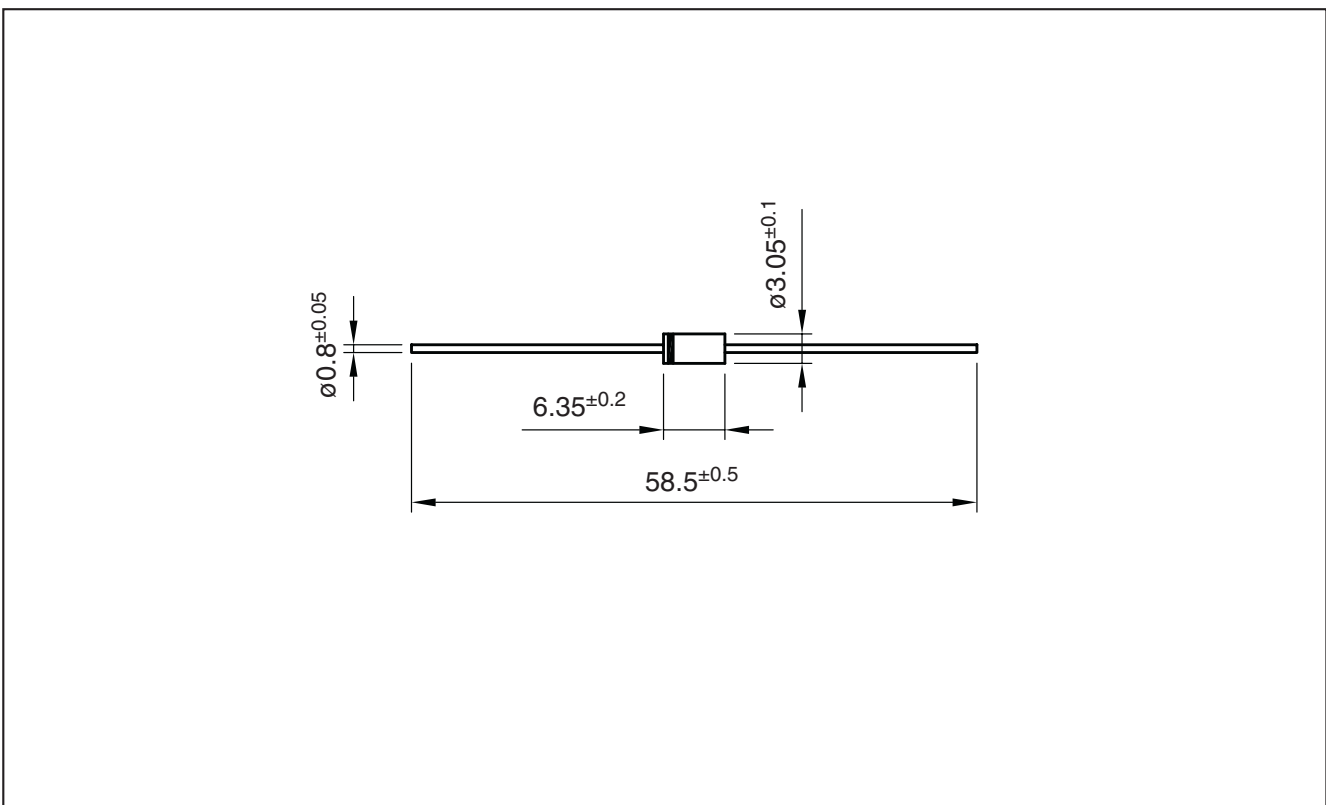
$V_F$	Maximum Forward Voltage Drop at $I_F = 1.5 A; T_a = 70^\circ C$	1.2 V
$I_R$	Maximun Reverse Current at $V_{RRM}$ at 25 °C at 100 °C	5 $\mu$ A 300 $\mu$ A
$t_{rr}$	Typical reverse recovery time (0.5/1/0.25 A)	3 $\mu$ s
$R_{th(j-a)}$	Thermal Resistance (l = 10mm.) Max. Typ.	50 °C/W 30 °C/W

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**Ordering information**

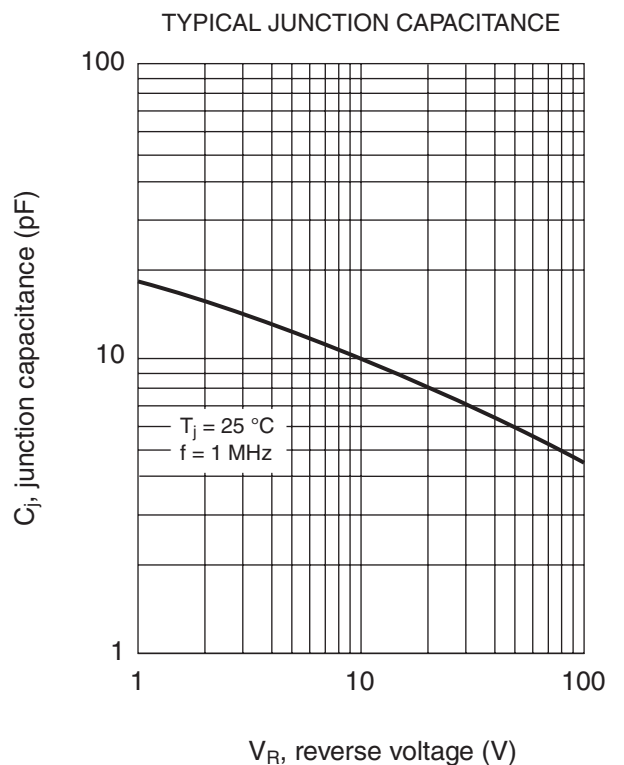
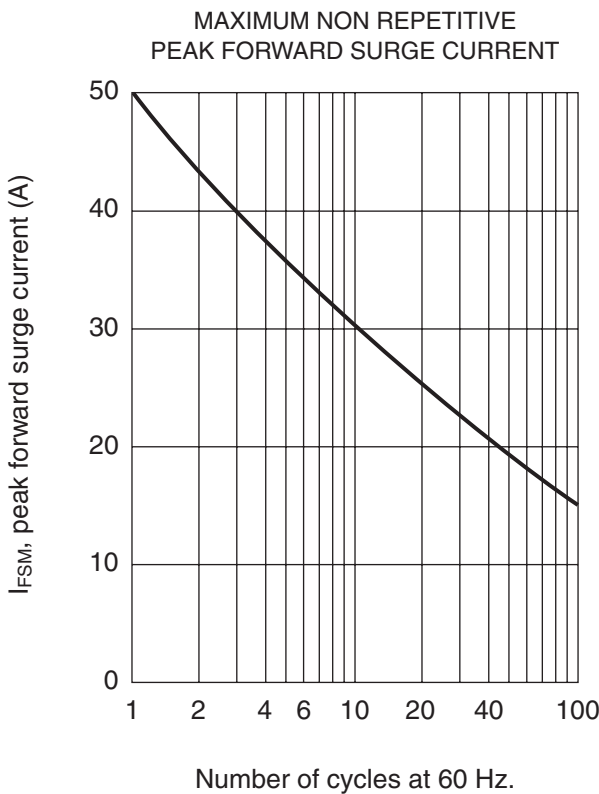
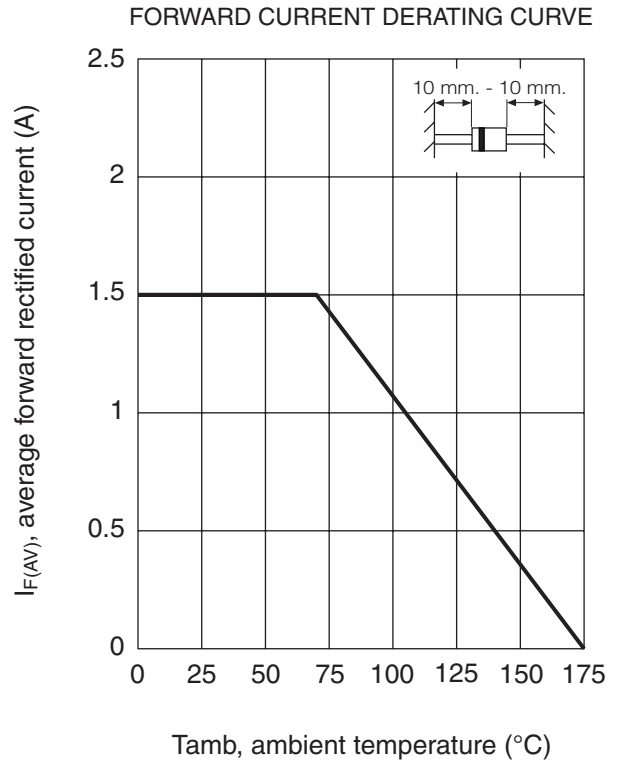
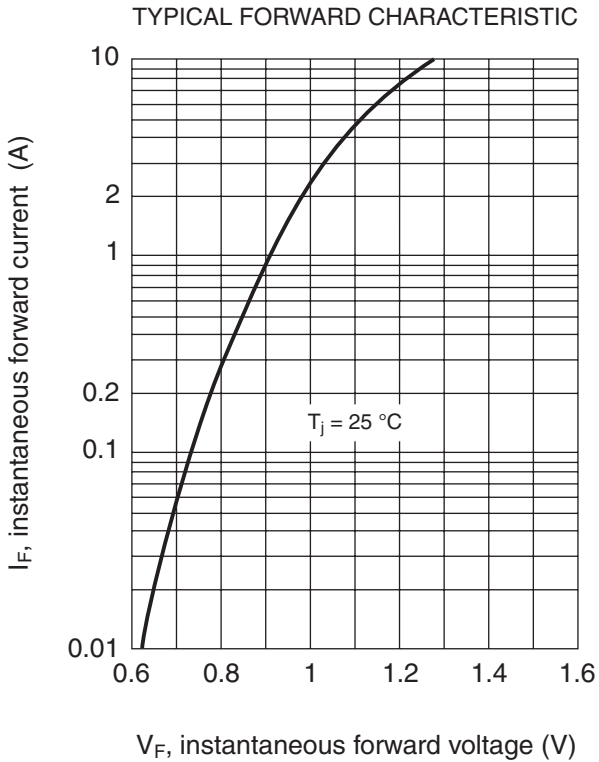
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1NR5393GP AMP	AMP	AMMO BOX	4,000	0.378
1NR5393GP TR	TR	14" diameter tape and reel	4,000	0.378

**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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