




## 2.0 Amp. Glass Passivated Junction Rectifier

<p><b>DO-204AC (DO-15)</b></p> 	<p><b>Voltage</b> 600V</p>	<p><b>Current</b> 2.0 A at 55° 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>			

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

		<b>BYW54</b>
$V_{RRM}$	Peak Recurrent Reverse Voltage	600 V
$V_{RWM}$	Max. crest working reverse voltage	600 V
$V_R$	Max. continuous reverse voltage	600 V
$V_{(BR)R=min}$	Min. reverse avalanche breakdown voltage @ $I_R=0.1$ mA	650 V
$I_{FAV}$	Forward current at $T_{amb} = 55$ °C	2.0 A
$I_{FRM}$	Recurrent peak forward current	20 A
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	80 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; $T_j = 25$ °C	20 mJ

### Electrical Characteristics at $T_{amb} = 25$ °C

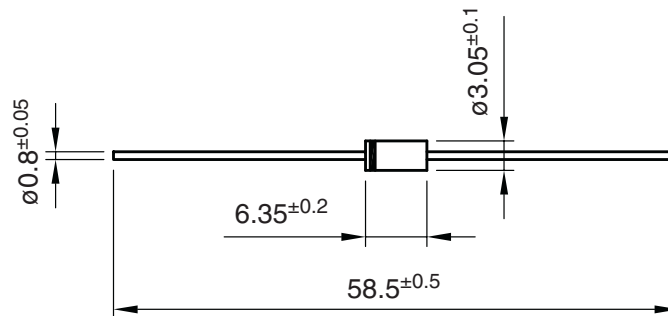
$V_F$	Maximum Forward Voltage Drop at $I_F = 1$ A	1.0 V
$I_R$	Maximum Reverse Current at $V_{RRM}$	1 $\mu$ A
$I_{R(H)}$	Maximum Reverse Current at $V_{RRM}$ , $T_j = 165$ °C	150 $\mu$ A
$R_{th(j-a)}$	Thermal Resistance ( $l = 10$ mm.)	Max. 50 °C/W Typ. 30 °C/W

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**Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
BYW54 AMP	AMP	AMMO BOX	4,000	0.378
BYW54 TR	TR	14" diameter tape and reel	4,000	0.378

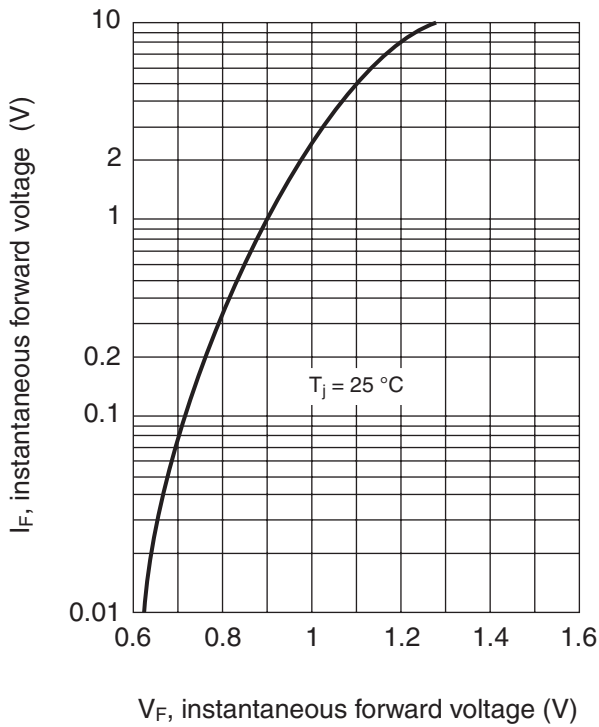
**Package Outline Dimensions: (mm) DO-204AC (DO-15)**



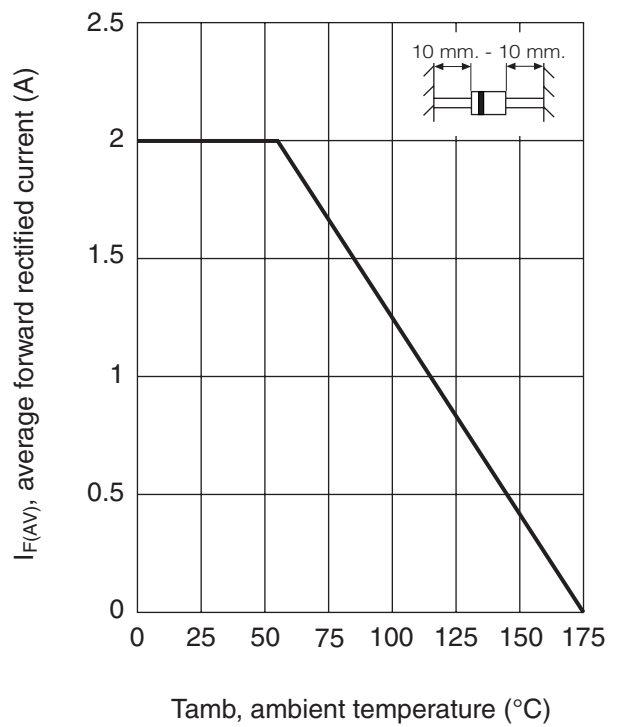
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**Ratings and Characteristics (Ta 25 °C unless otherwise noted)**

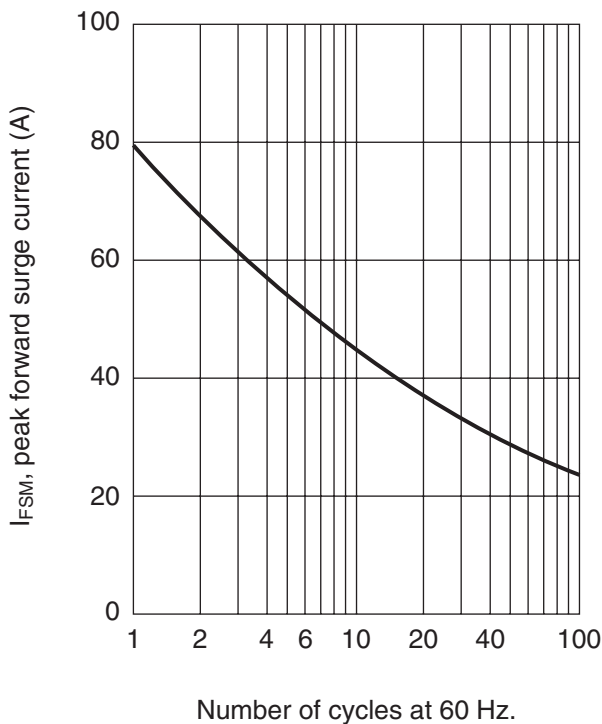
TYPICAL FORWARD CHARACTERISTIC



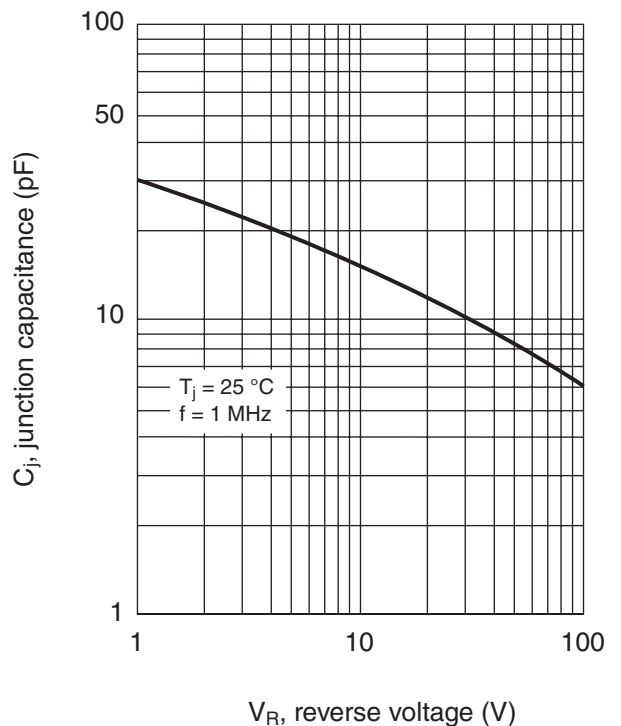
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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