




1.0 Amp. Glass Passivated Junction Rectifier

<p>DO-204AC (DO-15)</p> 	<p>Voltage 50 to 1000V</p>	<p>Current 1.0 A to 70° C</p>	
			
	<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 		 <p>RoHS COMPLIANT</p>
	<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>			

Maximun Ratings and Electrical Characteristics at 25°C

		BYW27 50	BYW27 100	BYW27 200	BYW27 400	BYW27 600	BYW27 800	BYW27 1000
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 70^\circ C$	1.0 A						
I_{FRM}	Recurrent Peak Forward Current	10 A						
I_{FSM}	10 ms. Peak Forward Surge Current	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. $I_R = 0.5 A; T_j = 25^\circ C$	20 mJ						

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

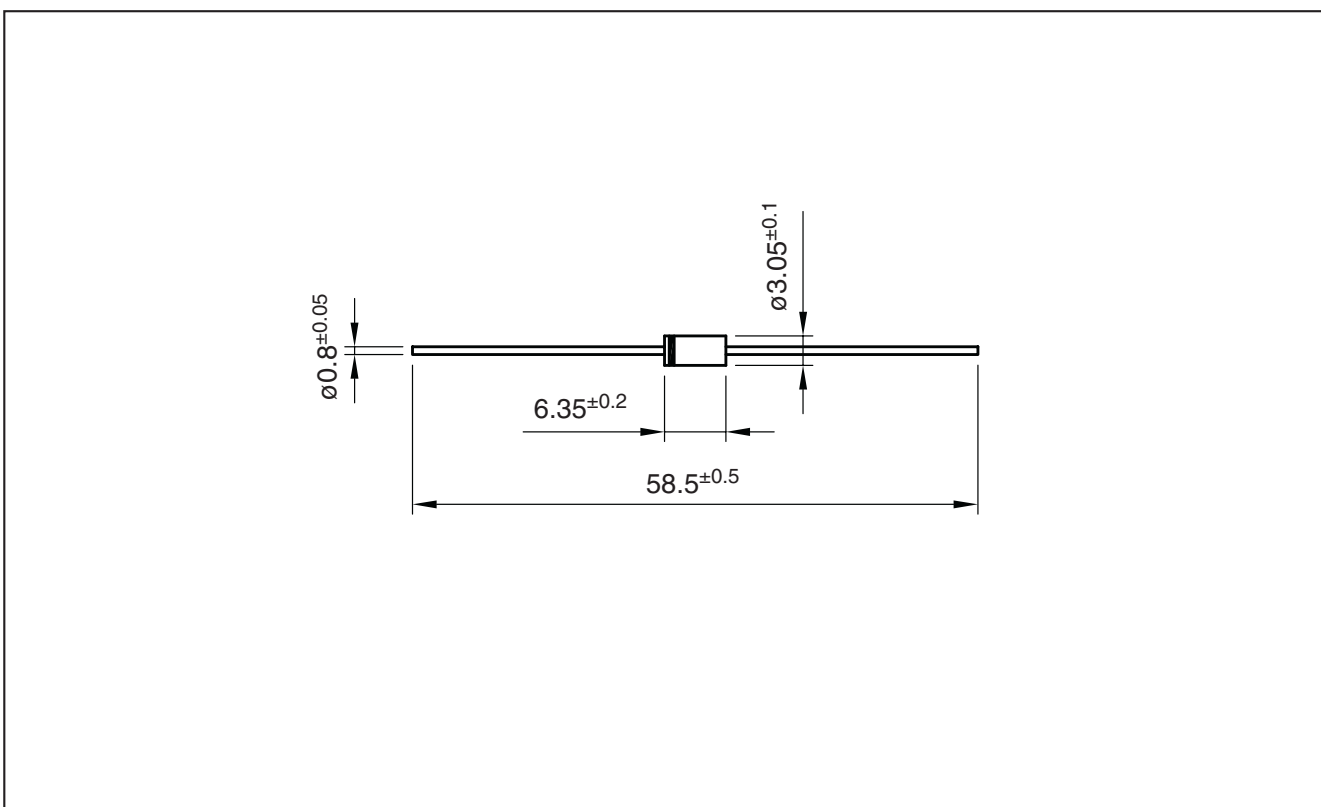
V_F	Maximum Forward Voltage Drop at $I_F = 1 A$	1 V
I_R	Maximun Reverse Current at V_{RRM} at 25 °C at 100 °C	200 nA 15 μ A
$R_{th(j-a)}$	Thermal Resistance (l = 10mm.)	60 °C/W

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Ordering information

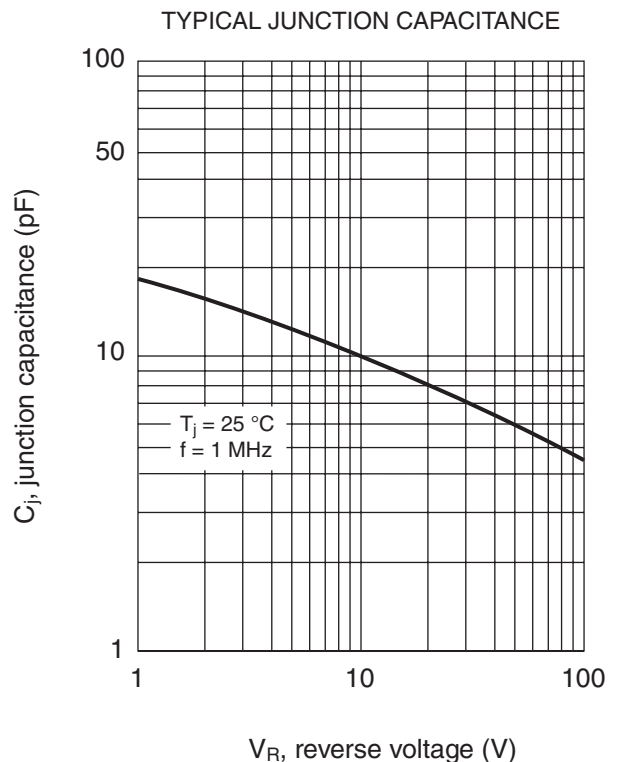
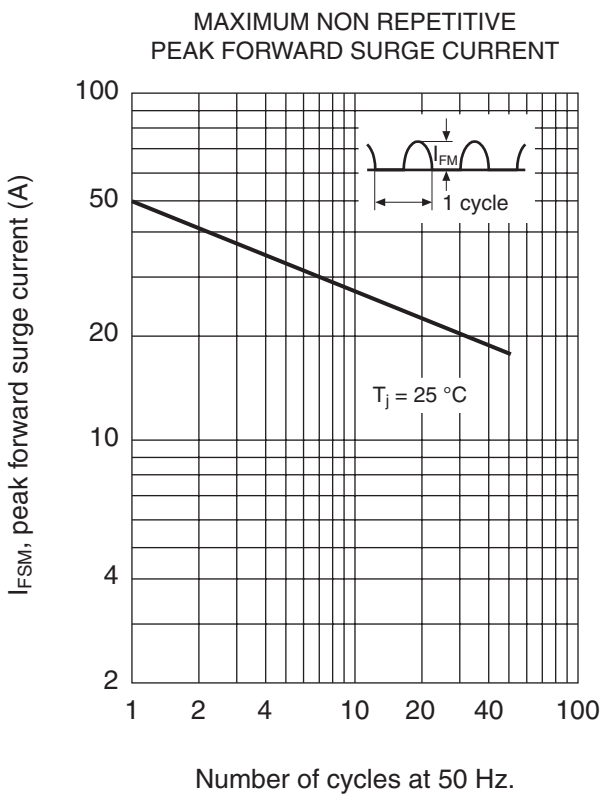
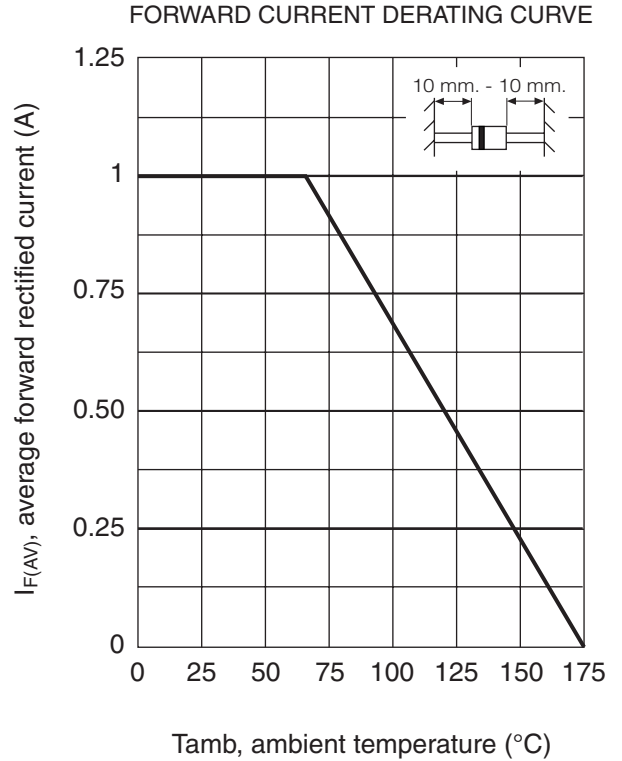
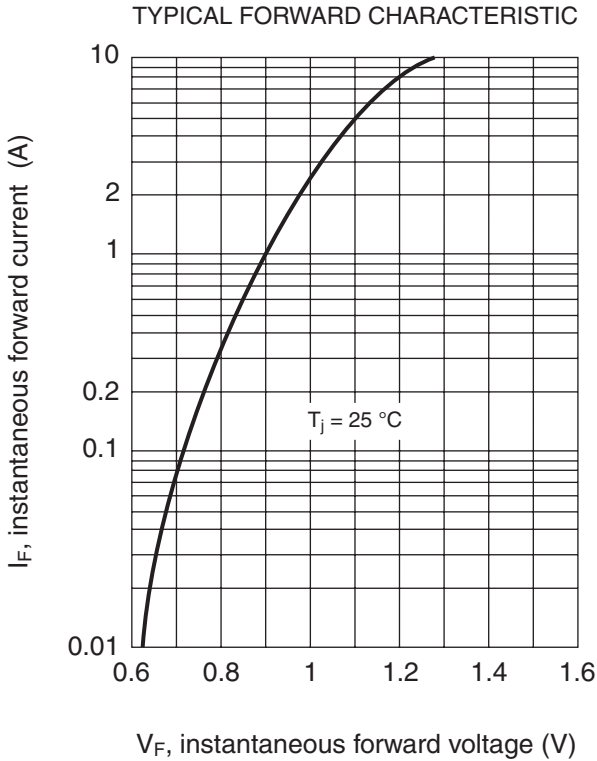
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
BYW27400 AMP	AMP	AMMO BOX	4,000	0.378
BYW27400 TR	TR	14" diameter tape and reel	4,000	0.378

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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