





2.3 Amp. Glass Passivated Ultrafast Recovery Rectifier

 <p>DO-201AD (DO-27)</p>	Voltage 200V to 1000V	Current 2.3 A at 55 °C	
			
	FEATURES <ul style="list-style-type: none"> Ultrafast recovery time for high efficiency Low power losses Low forward voltage drop High forward surge current capability Solder dip 260°C, 10s AEC-Q101 qualified Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> Case: DO-201AD (DO-27). 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. 		
TYPICAL APPLICATIONS Used in high frequency rectifier of switching mode power supplies, inverters, freewheeling diodes, dc-to-dc converters, and other power switching application.			

Maximun Ratings and Electrical Characteristics at 25 °C

Marking Code		BYM26A	BYM26B	BYM26C	BYM26D	BYM26E
V_{RRM}	Peak Recurrent Reverse Voltage (V)	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
$I_{F(AV)}$	Forward Current at Tamb = 55 °C	2.3 A				
I_{FRM}	Recurrent Peak Forward Current	19 A				
I_{FSM}	10 ms. Peak Sine Wave Forward Surge Current	45 A				
t_{rr}	Max. Reverse Recovery Time From $I_F = 0.5 A$; $I_R = 1 A$; $I_{rr} = 0.25 A$	30 ns			75 ns	
V_{BR}	Avalanche breakdown voltage at 100 μA (V)	>300	>500	>700	>900	>1100
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 Tamb = 25 °C

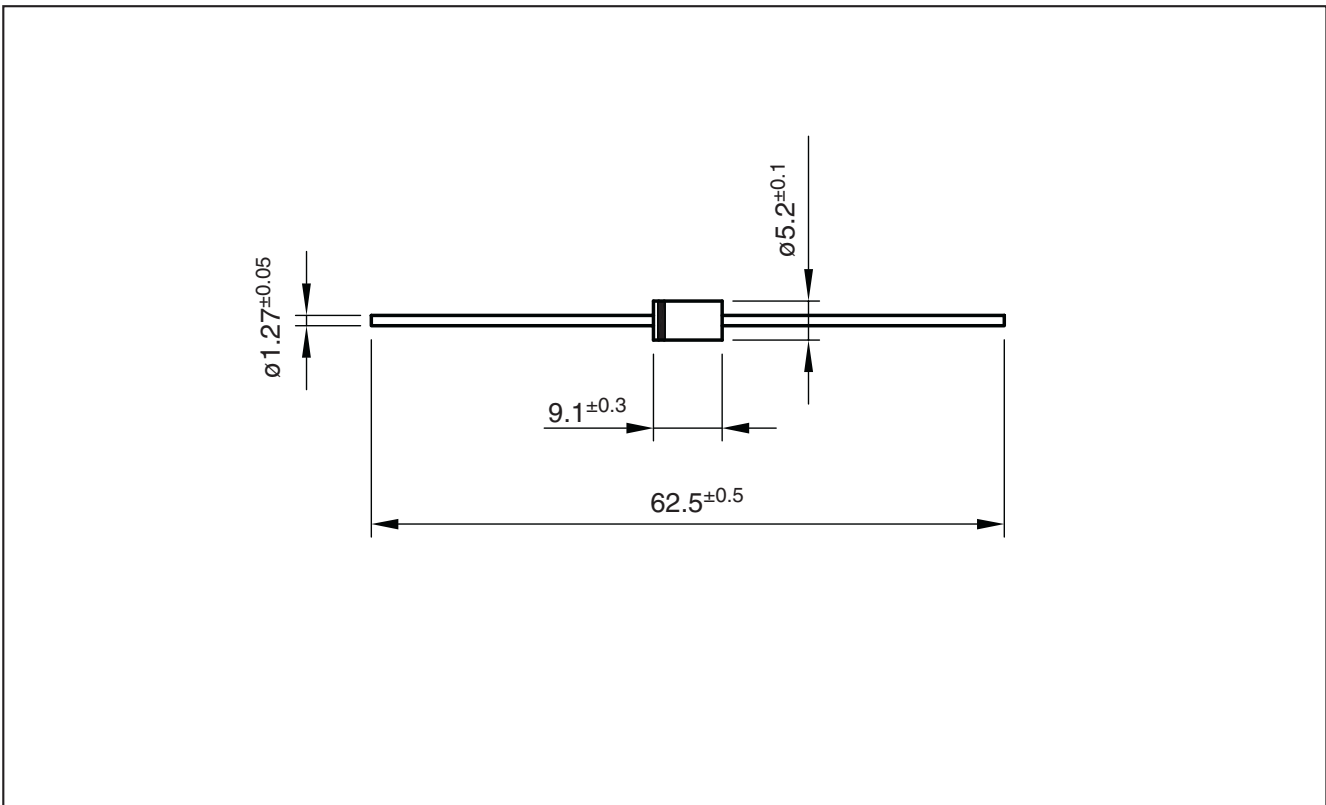
V_F	Max. Forward Voltage Drop at $I_F = 2 A$	at 25 °C 2.65 V at 175 °C 1.34 V
I_R	Max. Reverse Current at V_{RRM}	at 25°C 5 μA at 165 °C 150 μA
$R_{th(j-a)}$	Max. Thermal Resistance (l = 10 mm)	30 °C/W

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Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
BYM26B AMP	AMP	AMMO BOX	1,500	1.100
BYM26B TR	TR	13" diameter tape and reel	1,500	1.100

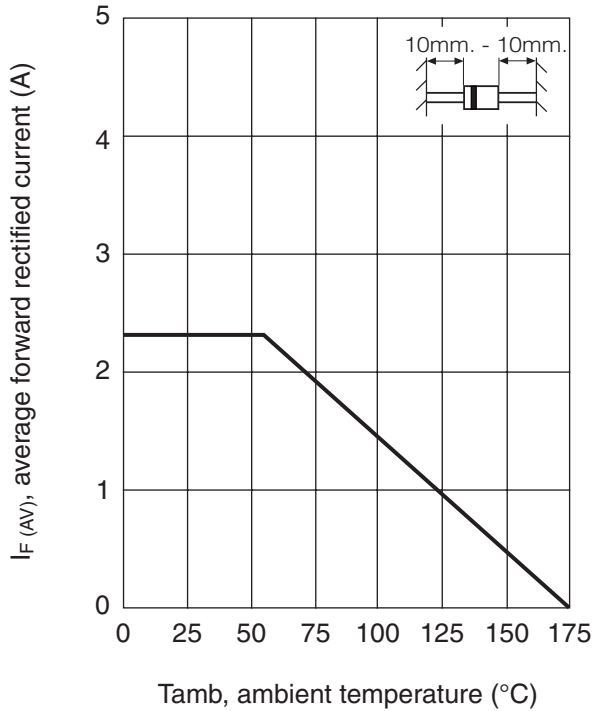
Package Outline Dimensions: (mm) DO-201AD (DO-27)



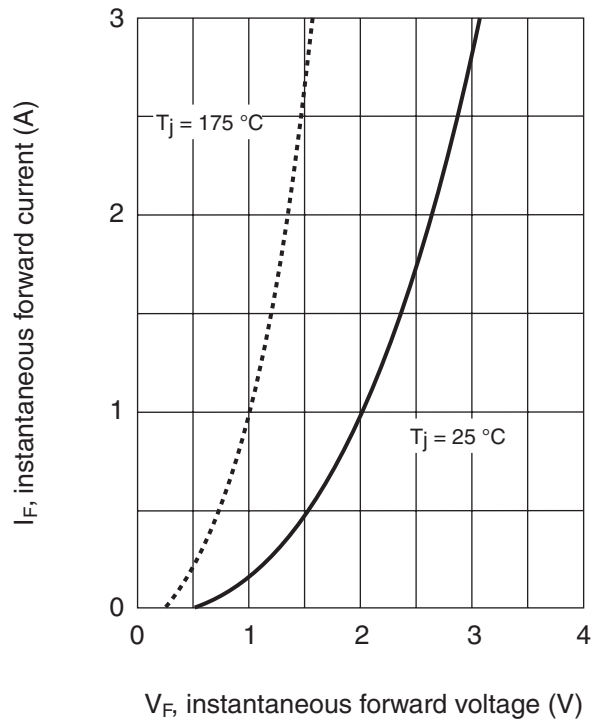
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Ratings and Characteristics (Ta 25 °C unless otherwise noted)

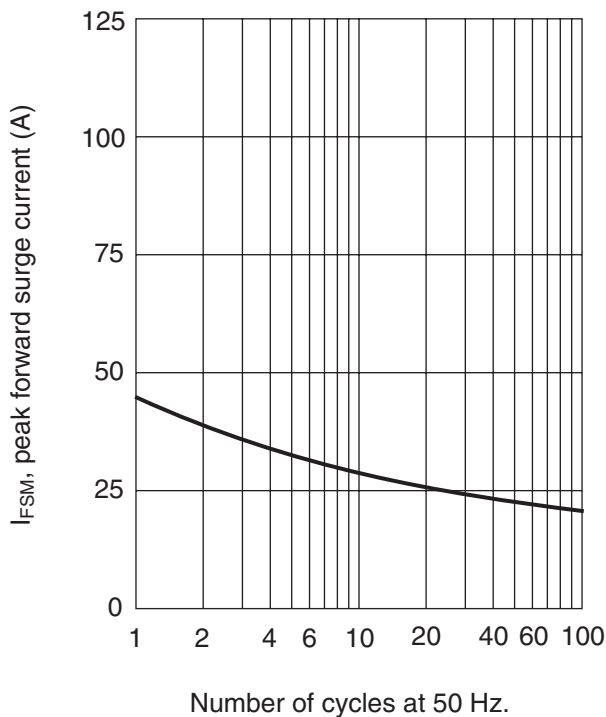
FORWARD CURRENT DERATING CURVE



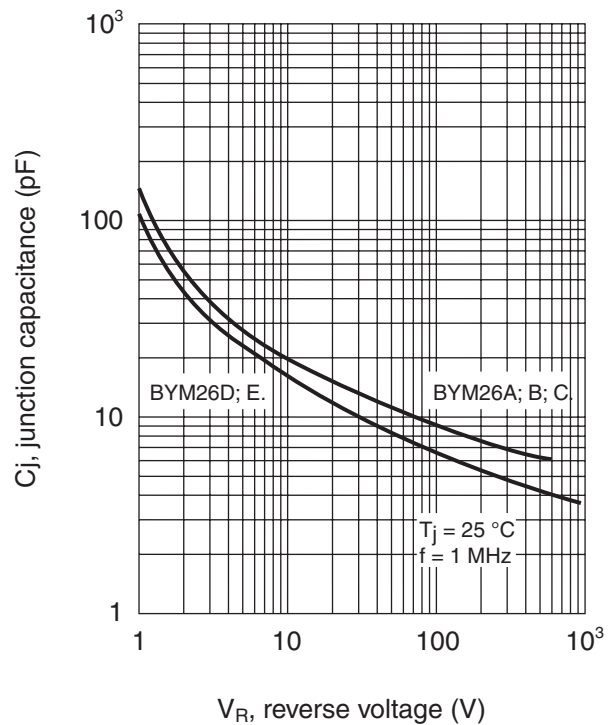
MAXIMUM FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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Revision History

Date	Revision	Description of Changes
May-2011	0	Original Data Sheet
Jun-2016	1	Format update

Disclaimer

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